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Zan Murray

MAXIMUM NUMBER OF EMPLOYEES = 15

REF PLAN

G000





MASTER KEYNOTE LIST – (APPLIES TO ARCHITECTURAL DRAWINGS ONLY)

DIVISION 1 GENERAL REQUIREMENTS

DIVISION 2 SITEWORK

02000 EARTHWORK

02200.A0 COMPACTED FILL  
02200.B0 GRAVEL BASE  
02200.C0 SAND

02511 ZERO VOIDS ASPHALT PAVING

02511.A0 ZERO VOIDS ASPHALT PAVING (THICKNESS)

02740 ASPHALT CONCRETE PAVING

02740.A0 ASPHALT CONCRETE PAVING

DIVISION 3 CONCRETE

03053 CONCRETE WATER PROOFING ADMIXTURE

03053.A0 CONCRETE WATER PROOFING ADMIXTURE

03054 OLIOPHOBIC TOPICAL CONCRETE SEALER

03054.A0 OLIOPHOBIC TOPICAL SEALER

03300 CAST-IN-PLACE CONCRETE

03300.A0 CONCRETE – SLAB ON GRADE  
03300.A1 CONCRETE SLAB-ON-GRADE – RE: STRUCTURAL  
03300.A2 CONCRETE SLAB-ON-GRADE (THICKNESS)  
03300.B1 CONCRETE SLAB – RE:STRUCTURAL  
03300.B2 CONCRETE SLAB (THICKNESS)  
03300.C0 FOOTING  
03300.C1 FOOTING – RE: STRUCTURAL  
03300.D0 CONCRETE PAD  
03300.E0 RETAINING WALL  
03300.F0 CAST-IN-PLACE REINFORCED CONCRETE  
03300.G0 CONCRETE OVER METAL DECK – RE:STRUCTURAL  
03300.H0 FOUNDATION WALL, RE: STRUCTURAL  
03300.H1 CONCRETE PIER, RE: STRUCTURAL  
03300.J0 REINFORCING  
03300.J1 REINFORCING – RE: STRUCTURAL  
03300.J2 #4 BARS CONTINUOUS (QUANTITY)  
03300.J3 #5 BARS CONTINUOUS (QUANTITY)  
03300.K1 THICKENED SLAB, RE: STRUCTURAL  
03300.L1 30# FELT  
03300.M1 MOISTURE BARRIER  
03300.N0 CONCRETE CURB  
03300.P3 CONTROL JOINT RE: STRUCTURAL  
03300.P4 CONSTRUCTION JOINT  
03300.P6 CHAMFER JOINT  
03300.P7 SAWCUT CONSTRUCTION JOINT, TYP.  
03300.S1 SPLASH BLOCK  
03300.S2 CONCRETE SWALE  
03300.T1 CONCRETE @ STAIR TREAD

DIVISION 5 METALS

05120 STRUCTURAL STEEL

05120.A1 STEEL BEAM – RE: STRUCTURAL – GALVANIZED  
05120.B1 COLUMN – RE: STRUCTURAL – GALVANIZED  
05120.C1 TUBE STEEL BEAM – RE: STRUCTURAL – GALVANIZED

05310 STEEL DECK

05310.A1 METAL DECK – RE: STRUCTURAL

05400 COLD-FORMED METAL FRAMING

05400.X1 STEEL STUD  
05400.X2 STEEL TRACK  
05400.X3 STEEL JOIST – RE:STRUCTURAL

05500 METAL FABRICATIONS

05500.A1 ANGLE – RE: STRUCTURAL  
05500.A2 STEEL ANGLE (SIZE) – GALVANIZED  
05500.B0 CLIP ANGLE  
05500.B2 CLIP ANGLE (SIZE)  
05500.C1 SHEET METAL ANGLE – 22 GA. – GALVANIZED (SIZE)  
05500.D0 CHANNEL (SIZE)  
05500.D1 CHANNEL – RE: STRUCTURAL  
05500.D2 HAT CHANNEL (SIZE)  
05500.E0 PLATE (SIZE)  
05500.E1 PLATE – RE: STRUCTURAL  
05500.E2 PLATE (SIZE) – GALVANIZED  
05500.E3 BENT PLATE – SEE STRUCTURAL  
05500.J1 PIPE BOLLARD (DIAMETER) – GALV. & PAINTED  
05500.M1 CHECKERED PLATE (SIZE) GALVANIZED  
05500.P0 ANCHOR BOLT(S)  
05500.P1 ANCHOR BOLTS (DIAMETER, SPACING)

05500 METAL FABRICATIONS (CONT.)

05500.V0 FLOOR PLATE  
05500.X1 STEEL STUD (RE:STRUCTURAL)  
05500.X2 STEEL RUNNER (RE:STRUCTURAL)  
05500.Y0 ROUGH HARDWARE – GALVANIZED  
05500.Z0 CHAIN – GALVANIZED

05510 METAL STAIRS

05510.A1 LADDER RUNGS  
05510.B0 LADDER RAILS  
05510.C0 LADDER MOUNTING BRACKET  
05510.D1 RUBBER SHOE AT BOTTOM OF EACH RAIL  
05510.E1 NON SKID SURFACE @ NOSING  
05510.F0 STEEL STRINGER – (SIZE)  
05510.F1 STEEL STRINGER – (SIZE) – GALVANIZED  
05510.G1 3/16" STEEL CLOSURE PLATE – GALVANIZED  
05510.H0 CONC. FILLED METAL PAN STAIR – GALVANIZED  
05510.H1 PRE-FORMED, CONC. FILLED METAL PAN STAIR TREAD – (SIZE) – GALVANIZED  
05510.J1 METAL PAN STAIR SUPPORT – (SIZE) – GALVANIZED  
05510.J2 PAN ANCHORAGE – (SIZE) – GALVANIZED  
05510.K1 STEEL CHANNEL DECK SUPPORT – GALVANIZED

05521 PIPE & TUBE RAILINGS

05521.A1 1 1/2" O.D. STEEL GUARDRAIL  
05521.A2 PIPE GUARDRAIL (DIAMETER) – GALVANIZED  
05521.A3 1 1/2" O.D. PIPE GUARDRAIL – GALVANIZED  
05521.B1 1 1/2" O.D. HANDRAIL  
05521.B2 PIPE HANDRAIL (DIAMETER) – GALVANIZED  
05521.B3 1 1/2" O.D. PIPE HANDRAIL – GALVANIZED  
05521.C2 ESCUTCHEON WITH EASED EDGES (SIZE)  
05521.D1 PIPE RAIL SUPPORT – GALVANIZED  
05521.E1 1" I.D. PIPE RAILING ANCHOR – GALVANIZED  
05521.F1 1/2" DIA. THRU BOLT

05530 GRATINGS

05530.A0 TRENCH FRAME – GALVANIZED  
05530.A1 STEEL GRATE 22-W-4 (SIZE) GALVANIZED  
05530.B0 ALUMINUM BAR PANELS  
05530.C1 METAL GRATE PANEL – GALV.  
05530.C2 METAL GRATE TREAD – GALV.

DIVISION 6 WOOD AND PLASTICS

06105 MISCELLANEOUS CARPENTRY

06105.L2 BLOCKING AS REQUIRED  
06105.P1 2X4  
06105.P2 2X6  
06105.P6 4X4  
06105.P9 2 x FRAMING, FIRE TREATED  
06105.P10 PRESSURE TREATED WOOD TIMBER (SIZE)  
06105.Q2 SHIM AS REQUIRED  
06105.R2 SHEATHING – PLYWOOD (THICKNESS) GRADE (SIZE)  
06105.R3 PROTECTION BOARD (THICKNESS)  
06105.V1 EXTERIOR GRADE PLYWOOD (THICKNESS)  
06105.V6 PEGBOARD (THICKNESS)  
06105.Z0 ANCHOR AS REQUIRED

06402 INTERIOR ARCHITECTURAL WOODWORK

06402.A0 SILL  
06402.A1 3/4" PAINTED WOOD SILL  
06402.B1 PLASTIC LAMINATE BACKSPLASH (HEIGHT)  
06402.C1 PAINT GRADE WOOD CAP (THICK)  
06402.H0 SHELF(YES)  
06402.H1 ADJUSTABALE SHELVES (FINISH)  
06402.H2 SHELVING (DEPTH)  
06402.K0 BASE UNIT (FINISH)  
06402.K2 BASE UNIT W/ADJ. SHELF(YES) (FINISH)  
06402.K3 BASE UNIT W/DRAWERS (FINISH)  
06402.K4 BASE UNIT W/DRAWER & ADJ. SHELF(YES) (FINISH)  
06402.L2 WALL UNIT W/ADJ. SHELF(YES) (FINISH)  
06402.P0 COUNTERTOP  
06402.P2 COUNTERTOP – P. LAM. ON 3/4" PLYWOOD  
06402.X0 WORKBENCH (DEPTH)

06651 SOLID SURFACE FABRICATIONS

06651.A0 1/2" WHITE SOLID SURFACE WINDOW SILL

DIVISION 7 THERMAL AND MOISTURE PROTECTION

07901 JOINT SEALANTS

07901.A0 CONT. SEALANT  
07901.B0 ASPHALT SATURATED FIBERBOARD  
07901.C0 CONT. CAULK  
07901.D0 JOINT FILLER  
07901.G0 BACKER ROD  
07901.H1 5/8" BEAD OF DE NEFF SWELLSEAL WA MASTIC  
07901.H2 CONCENTRATED DRY PAC  
07901.H3 CONCENTRATED SLURRY COAT

DIVISION 8 DOORS AND WINDOWS

08111 STANDARD STEEL DOORS AND FRAMES

08111.A0 PRESSED METAL FRAME  
08111.A1 GROUT-FILLED PRESSED METAL FRAME  
08111.Y0 HOLLOW METAL DOOR  
08111.C0 JAMB ANCHOR

08360 SECTIONAL OVERHEAD DOORS

08360.A0 OVERHEAD SECTIONAL DOOR  
08360.B0 3" HEAVY DUTY OVERHEAD SECTIONAL DOOR TRACK  
08360.C0 WEATHERSTRIPPING  
08360.D0 DOOR GUIDE

08520 ALUMINUM WINDOWS

08520.A0 WINDOW UNIT  
08520.B0 FIXED ALUM. WINDOW  
08520.C0 ALUM. WINDOW W/SLIDING GLASS PANEL  
08520.M0 SILL STARTER, SET IN SEALANT  
08520.P0 BREAKMETAL  
08520.Q0 WEATHERSTRIPPING  
08520.R0 ALUMINUM FLASHING, FINISH TO MATCH WINDOW FRAME

08521 HORIZONTAL SLIDING VINYL (PVC) WINDOWS

08521.B0 FIXED VINYL WINDOW  
08521.C0 VINYL WINDOW W/SLIDING GLASS PANEL

08710 DOOR HARDWARE

08710.A0 THRESHOLD  
08710.B0 DOOR SWEEP  
08710.C0 WEATHERSTRIPPING

08800 GLAZING

08800.C0 WIRE GLASS  
08800.G1 CLEAR INSULATING GLASS (SIZE)  
08800.G3 OPAGUE INSULATING GLASS

DIVISION 9 FINISHES

09255 GYPSUM BOARD ASSEMBLIES

09255.A1 GYPSUM BOARD (THICKNESS)  
09255.A2 WATER RESISTANT GYPSUM BOARD (THICKNESS)  
09255.B2 TYPE 'X' GYPSUM BOARD (THICKNESS)  
09255.C3 CEMENT BOARD (THICKNESS)  
09255.H0 METAL STUD  
09255.H1 METAL STUDS (SIZE, SPACING)  
09255.P9 METAL RUNNER  
09255.K0 DOUBLE STUDS  
09255.K1 DOUBLE STUDS (GAGE)  
09255.L1 7/8" X 1-3/8" METAL ANGLE  
09255.L2 2-1/2" X 2-1/2" METAL ANGLE  
09255.M2 METAL CORNER BEAD (TYP)  
09255.P0 Z-FURRING CHANNEL  
09255.Q0 7/8" METAL FURRING CHANNEL  
09255.R2 CHANNEL (SIZE, SPACING)  
09255.S1 8 GA. WIRE HANGERS (SPACING)  
09255.S2 18 GA. WIRE TIES  
09255.S3 18 GA. METAL MOUNTING STRIPS  
09255.S4 14 GA. STAINLESS STEEL COUNTER TOP (FINISH)  
09255.U1 SUSPENDED CEILING SYSTEM  
09255.V0 EDGE TRIM (TYP)  
09255.V2 LC-BEAD (PREFERRED USG 200-A TRIM)  
09255.V4 VINYL TRIM

09300 TILE

09300.A1 FLOOR TILE – SEE FINISH SCHED.  
09300.B1 WALL TILE – SEE FINISH SCHED.  
09300.C0 TILE BASE  
09300.D1 BULLNOSE TRIM UNIT  
09300.E1 1/2" x 6" TILE TRIM PIECE – SEE FINISH SCHED.  
09300.G1 MORTAR BED  
09300.G4 WATERPROOF MEMBRANE

09660 RESILIENT TILE FLOORING

09660.A1 VINYL COMPOSITION TILE  
09660.B1 VINYL TRANSITION STRIP

09678 RESILIENT WALL BASE AND ACCESSORIES

09678.E1 RUBBER BASE (SIZE)

09900 PAINTING

09900.A1 PAINT – SEE FINISH SCHED.

DIVISION 10 SPECIALTIES

10100 VISUAL DISPLAY BOARDS

10100.C0 MARKER BOARD

10425 SIGNS

10425.A0 ROOM SIGNAGE  
10425.A1 OIL SIGNAGE  
10425.B1 WELDING SIGNAGE  
10425.C1 ACCESSIBLE SIGNAGE  
10425.D1 ACCESSIBLE/UNISEX RESTROOM SIGNAGE

10500 METAL LOCKERS AND STORAGE CABINETS

10500.A0 METAL LOCKERS (WIDTH)  
10500.B0 METAL STORAGE CABINETS

10522 FIRE EXTINGUISHERS, CABINETS, AND ACCESSORIES

10522.A0 FIRE EXTINGUISHER

10800 TOILET AND BATH ACCESSORIES

10800.B0 PAPER TOWEL DISPENSER & WASTE RECEPTACLE  
10800.B1 SEMI-RECESSED PAPER TOWEL DISPENSER & WASTE RECEPTACLE  
10800.C0 TOILET TISSUE DISPENSER  
10800.C1 RECESSED TOILET TISSUE DISPENSER/SAN. NAP. DISPOSAL  
10800.D0 MOP RACK  
10800.E0 GRAB BAR  
10800.E1 GRAB BAR (SHOWER)  
10800.F0 ROBE HOOK  
10800.F1 DOUBLE PRONG ROBE HOOK  
10800.H0 SOAP DISPENSER  
10800.H1 SOAP DISH  
10800.P1 SHOWER CURTAIN ROD  
10800.P2 SHOWER CURTAIN  
10800.R1 FRAMED MIRROR (SIZE)  
10800.T1 FOLDING SHOWER SEAT  
10800.T0 METAL SHELF (SIZE)

DIVISION 11 EQUIPMENT

11151 MOBILE LIFT

11151.A0 MOBILE LIFT – NIC – OWNER FURNISHED

DIVISION 12 FURNISHINGS

12511 HORIZONTAL LOUVER BLINDS

12511.A0 HORIZONTAL LOUVER BLINDS

DIVISION 13 SPECIAL CONSTRUCTION

13125 METAL ARCH BUILDING SYSTEM

13125.A0 METAL ARCH BUILDING SYSTEM  
13125.B0 STANDING SEAM METAL ROOF  
13125.B1 STANDING SEAM METAL ROOF RIDGE  
13125.B2 STANDING SEAM METAL CANOPY  
13125.C0 METAL RAIN GUTTER W/DOWNSPOUTS  
13125.C1 METAL RAIN GUTTER  
13125.C2 DOWNSPOUT  
13125.C3 GUTTER STRAP, INSTALL AT EVERY OTHER PANEL RIB  
13125.D0 METAL FLASHING  
13125.D1 METAL DRIP FLASHING  
13125.D2 METAL HEAD FLASHING  
13125.D3 METAL SILL FLASHING  
13125.D4 METAL FLASHING, FINISH TO MATCH ROOF PANELS  
13125.D5 RIDGE FLASHING, TO MATCH ROOF PANELS  
13125.D6 DOOR HEAD FLASHING  
13125.D7 JAMB FLASHING  
13125.D8 CONTINUOUS PRE-FINISHED SHEET METAL CLOSURE  
13125.E0 METAL TRIM  
13125.E1 JAMB TRIM  
13125.E2 PANEL TRIM  
13125.E3 RAKE TRIM  
13125.E4 RAKE SLIDE  
13125.E5 METAL EAVE CLOSURE  
13125.E6 WALL CLOSURE  
13125.E7 METAL OUTSIDE CLOSURE  
13125.E8 CORNER TRIM  
13125.E9 FRAMED OPENING HEADER  
13125.F0 METAL WALL PANEL  
13125.F1 METAL WALL FASTENER  
13125.F2 BLIND RIVET  
13125.F3 POP RIVET  
13125.G0 STANDING SEAM METAL FACIA  
13125.H0 BREAK METAL  
13125.H1 METAL ANGLE  
13125.H2 HIGH RAKE SUPPORT ANGLE  
13125.H3 RAKE ANGLE  
13125.H4 4" x 4" CONT. ANGLE  
13125.H5 BACKUP PLATE ANGLE  
13125.H6 EAVE SUPPORT ANGLE  
13125.H7 EAVE STRUT

13125 METAL ARCH BUILDING SYSTEM (CONT.)

13125.J0 STRUCTURAL MEMBER – PRIMED AND PAINTED  
13125.J1 STRUCTURAL GIRT – PAINTED  
13125.J2 ROOF PURLIN – PAINTED  
13125.J3 STRUCTURAL GIRT  
13125.K0 CLIP  
13125.K1 LOW PANEL CLIP  
13125.L1 STEEL COLUMN – PAINTED  
13125.L2 STEEL COLUMN – GALV. – PAINTED  
13125.L3 STEEL COLUMN – GALVANIZED  
13125.L4 STEEL COLUMN – PRIMED AND PAINTED  
13125.M1 STEEL BEAM – PAINTED  
13125.M2 STEEL BEAM – GALV. – PAINTED  
13125.M3 STEEL BEAM – GALVANIZED  
13125.M4 STEEL BEAM – PRIMED AND PAINTED  
13125.N1 ANCHOR  
13125.N2 FASTENER (SPACING)  
13125.P1 DOUBLE BEAD TAPE SEALER  
13125.P2 SEALANT  
13125.P3 THERMAL BREAK  
13125.Q0 METAL VENT  
13125.Q1 VENT MATERIAL  
13125.R0 INSULATION & VAPOR BARRIER (R-VALUE)

DIVISION 14 CONVEYING SYSTEMS

14620 TROLLEY HOIST

14620.A0 TROLLEY HOIST (SIZE) – RE: STRUCTURAL

DIVISION 15 EQUIPMENT

15000 MECHANICAL

15050.A1 MECH. PENETRATIONS  
15251.A1 PIPE INSULATION AT ALL EXPOSED PIPE  
15410.A0 URINAL  
15410.A1 URINAL, ACCESSIBLE  
15410.B0 SINK FAUCET  
15410.B1 SINK FAUCET W/ADA LEVER HANDLES  
15410.C0 UTILITY SINK  
15410.D1 FLOOR SINK  
15410.E0 TRENCH DRAIN  
15410.E1 DRAIN W/ SEDIMENT BUCKET  
15410.E2 FLOOR DRAIN  
15410.F0 TOILET  
15412.A0 EMERGENCY SHWR & EYE WASH  
15452.A1 DRINKING FOUNTAIN  
15460.A1 GAS FIRED WATER HEATER  
15490.A0 WASTE OIL PUMP  
15490.B0 WASTE OIL CARTS  
15490.C0 WASTE OIL PIT  
15490.D0 800 GAL WASTE OIL TANK – O.F.C.I.  
15491.A0 AIR COMPRESSOR  
15491.B0 OVERHEAD LUBE REEL  
15491.C0 OVERHEAD HOSE REEL  
15600.A0 NATURAL GAS RADIANT HEATING SYSTEM  
15611.A1 PROPANE FIRED FURNACE  
15838.A0 EXHAUST FAN  
15887.A1 LOUVER W/ BIRD SCREEN

DIVISION 16 ELECTRICAL

16442 PANELBOARDS

16442.A0 ELECTRICAL PANEL

16510 INTERIOR LIGHTS

16510.A0 INTERIOR LIGHTS

16520 EXTERIOR LIGHTS

16520.B1 EXTERIOR WALL MOUNTED LIGHTS  
16520.B2 EXTERIOR WALL MOUNTED FLOOD LIGHTS

CLIENT

CLEARFIELD  
MAINTENANCE  
FACILITY

STATION #1424  
2001 EAST 700 SOUTH  
CLEARFIELD, UTAH 84015

DESIGNER

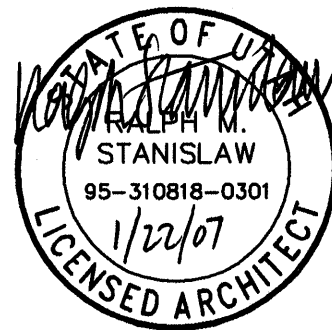
**ARCHIPLEX**  
GROUP

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CONSULTANTS

PROFESSIONAL SEAL



ISSUE

1	01/15/07	DFCM REVIEW COMMENTS
	12/08/06	CONSTRUCTION DOCUMENTS
	08/28/06	95% DESIGN SUBMITTAL
	07/17/06	60% DESIGN SUBMITTAL
MARK	DATE	DESCRIPTION

DFCM CONTRACT NO:	067477
DFCM PROJECT NO:	06034900
ARCHIPLEX PROJECT NO:	0609.01
DRAWN BY:	K. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	NONE
DATE:	DECEMBER 8, 2006

KEY PLAN

SHEET TITLE

MASTER  
KEYNOTE LIST

G002



GENERAL NOTES:

1. Utah Department of Transportation, DFCM and the Architect have jurisdiction over this project. Contractor shall obtain all necessary permits and business licenses prior to construction. Permits shall include, but not be limited to water, sewer, curb & gutter, storm water and grading.
2. Contractor is responsible for dust abatement and any liability issues related to dust at any location which may be caused by this project.
3. The Contractor is responsible for traffic control and protection of pedestrians in and around this work. Reference the manual on uniform traffic control devices (MUTCD latest edition for work zone traffic control). Warning and/or danger signs shall be required. Such flagmen or personnel as is necessary shall be readily available, especially when loaded or unloaded trucks- equipment are ingressing or egressing onto the job site. The contractor shall use the suggested traffic control plan, if included in plans, or submit a plan of his/her own for approval by the Engineer and/or the Owner and other regulator agencies.
4. Any work done within a public right-of-way shall be coordinated with the appropriate transportation agency and shall meet the requirements of that agency and, in particular, requirements of any right-of-way special use permit, or other permit. All work shall meet current OSHA requirements.
5. Where work is performed on easements, the contractor shall take every precaution to eliminate any adverse effects on the adjacent property and/or to restore it to its original condition.
6. All distances and data shall be checked by the contractor prior to the start of construction. In case of conflict the engineer shall be notified immediately so that clarification may be made prior to the start of the work.
7. The contractor shall be responsible for disposal and fees of all materials removed or demolished on site.
8. The Contractor shall arrange for, secure and pay for directly, any and all temporary utility supplies it may require for prosecution of its work. The cost of such utilities shall be included in the appropriate bid item with which it is associated.
9. Should construction be halted because of inclement weather conditions, the Contractor will completely clean up all areas and maintain the surface in good condition during the shut-down period. No excavation in paved streets will be allowed if weather conditions do not permit repaving of the pipeline trench.
10. The Contractor's personnel, equipment, and operations shall comply fully with all applicable standards, regulations, and requirements of existing Federal, Utah State, and Local governmental agencies.
11. No person shall be cut off from access to his residence or place of business for a period exceeding eight (8) hours, unless the Contractor has made special arrangements with the affected persons prior to commencing work in the area.
12. The Contractor shall preserve existing City, County, State, and Federal land monuments whenever possible. If a monument must be moved the engineer shall be contacted 2 weeks prior to removal to arrange for relocation.
13. The Contractor shall be responsible for obtaining all local, State, and Federal permits required for stormwater pollution prevention as a result of construction activities. When called for in the Contract Documents, the Contractor shall prepare a Stormwater Pollution Prevention Plan for approval by the Engineer. If the construction will disturb more than one acre, the Contractor shall obtain a copy of the U.S. Environmental Protection Agency's NPDES General Permit for Storm Water Discharges Associated with Construction Activity (otherwise known as the Construction General Permit or CGP) and submit a "Notice of Intent" (NOI)(EPA Form 3510-9 (603)) for permit coverage under the General Permit. The CGP may be found on the Internet at <<http://www.epa.gov/npdes/stormwater/cgp>> or by contacting the U.S. EPA Office of Water directly at (800) 424-4372. The NOI may be filed electronically at the following website: <<http://cfpub.epa.gov/npdes/stormwater/enoi.cfm>>. The CGP does not relieve the Contractor from compliance with other regulations or contract requirements regarding stormwater pollution prevention including but not limited to: protection of surface waters, prevention of soil runoff into drains, dust control, prevention of tracking soils to adjacent streets, fuel containment, spill control, etc.

EXISTING UTILITES

1. Approximate locations of utilities are shown on the plans. They are to be used for general information only. It is the responsibility of the contractor to notify the appropriate utility companies when construction might interfere with normal operation of any utilities. It shall also be the contractor's responsibility to have the appropriate utility company field-locate any utility installations which might be affected by construction prior to beginning work in that area. The contractor shall be responsible for maintaining service of existing utilities and for restoring any utilities damaged due to construction at no additional cost to the owner. Depths and elevations of utilities are unknown unless otherwise shown. Contractor shall field verify utility depths, elevations, any discrepancies and/or conflicts shall be brought to the attention of the Engineer immediately.

INSPECTIONS AND TESTING

1. The Owner shall be responsible for all materials testing including but not limited to concrete, asphalt, compaction, sewer and water. All tests shall meet minimum Engineer requirements. See the contract documents and drawings for frequency of testing. Results are to be delivered to Special Inspector, Owner and Architect.
2. Pressure, deflection and other tests relating to pipeline installation shall be paid for and performed by the Contractor.
3. The Contractor is responsible to coordinate with Architect and Special Inspector for inspections of work at appropriate intervals. It shall be the Contractor's responsibility to pay for additional inspections that are the result of his workmanship.
4. The Contractor is responsible for sewage & drainage tests.

TRENCH EXCAVATION AND BACKFILL - Unless noted otherwise in the Project Specifications, these requirements apply.

1. Barriers shall be placed at each end of all excavations and at such places as may be necessary along excavations to warn all pedestrians and vehicular traffic of such excavations. Lights shall also be placed along excavations from one hour before sunset each day to one hour after sunrise of the next day until such excavations are entirely refilled, compacted, and surfaced or final graded. All excavations shall be barricaded in such a manner as to prevent persons from falling, walking, or otherwise entering any excavation in any street, roadway, parking lot, treatment plant or any other area, public or private.
2. Excavations shall be sheeted, braced, and shored as required to support the walls of the excavations, to eliminate sliding and settling and as may be required to protect the workmen, the work in progress, and existing utilities, structures and improvements. All such sheeting, bracing, and shoring shall comply with the requirements of the Utah State Industrial Commission, Occupational Safety and Health Act (OSHA), and accident prevention and safety provisions of the contract.
3. All trenches shall be kept free from water during excavation, fine grading, pipe laying and jointing, and pipe embedment operations.
4. No sanitary sewer shall be used for disposal of trench water. Surface water shall be prevented from entering trenches.
5. All backfill and compaction shall be completed within a maximum distance of 200 feet behind the end of newly installed pipe.
6. Excavation shall be not more than 200 feet ahead of the newly installed pipe. The Contractor shall restore the asphalt surface where the utilities cross existing asphalt.
7. The minimum clear trench width at the horizontal diameter of the pipe must not be less than the outside diameter of the pipe plus twelve-inches (12").
8. Gradation. Imported granular material shall conform to the following gradation specifications:

Granular Foundation Material:

One hundred percent passing a one-inch screen and five percent passing a one-half-inch screen.

Granular Bedding Material:

Ductile iron or concrete pipe - One hundred percent (100%) passing a one-inch screen and five percent passing a No. 4 sieve.

PVC pipe - One hundred percent passing a three/quarter-inch screen and five percent passing a No. 4 sieve.

Copper tubing/PE pipe - One hundred percent passing a No. 4 sieve and eight percent passing a No. 200 sieve.

Granular Backfill material:

One hundred percent passing a three-inch square sieve and fifteen percent passing a No. 200 mesh sieve.

9. Under pavements or other surface improvements the in-place density shall be a minimum of ninety-six percent (96%) of laboratory standard maximum dry density as determined by AASHTO T-99. In shoulders and other areas the in-place density shall be a minimum of ninety percent (90%) of the maximum dry density as determined by AASHTO T-99. The backfill in the trenches shall be either compacted or consolidated according to the requirements of the materials being placed.
10. Where compaction methods are used, the material shall be placed at a moisture content and un-compacted lift thickness such that after compaction the required relative densities will be produced. In no event will the material be placed in lifts which, prior to compaction, exceed eight inches (8").

PIPE-GENERAL

1. All pipe lines are to be located as shown on the plans unless relocated in the field by the Engineer to avoid unforeseen utility interference.
2. Minimum clearance between new pipelines and existing utilities and structures (except sewers) shall be two feet horizontally.
3. Contractor shall provide all necessary fittings, hardware, labor, etc. To construct vertical and horizontal bends in pipe as needed to meet the required grade, alignment, and cover requirements.
4. For connections to existing sewer lines, contractor shall field verify all pipe diameters, pipe materials, and appurtances for confirmation of the required fittings prior to ordering fittings.
5. Dimensions to pipelines are to centerline unless otherwise noted.
6. Distances shown along pipelines are horizontal distances and not pipe length.
7. Wherever the subgrade material does not afford a sufficiently solid foundation to support the pipe and superimposed load, or where groundwater must be drained, the subgrade shall be excavated to such depth as may be necessary and replaced with Gravel Foundation Material.
8. All pipe shall be protected from lateral displacement and possible damage resulting from impact or unbalanced loading during backfilling operations by being adequately bedded.
9. Where applicable, bell holes shall be excavated so that only the barrel of the pipe receives bearing from the trench bottom.
10. In the event trench materials are not satisfactory for pipe bedding, modified bedding will be required. Modified bedding shall consist of placing compacted granular material on each side of and to the level of twelve-inches (12") above the top of the pipe.

PIPE FITTINGS

1. All pipe fittings shall conform to AWWA standards.
2. All buried valves shall be installed complete with two-piece, cast iron, screw type, 5-1/4-inch shaft valve box with lid. The lid shall have the word "Water" cast in the metal.
3. All valve boxes in paved areas shall contain a concrete 6" thick concrete collar 24 inches larger in diameter than the valve box. This collar shall contain (1) #4 rebar at the center of the collar.

PRESSURE PIPE

1. Contractor shall coordinate all live taps and any other work on or manipulation of the existing water system with the engineer and city. Coordinate connections to the water system with Frank May, UDOT Maintenance Shed Foreman, (435) 730-1606.
2. Minimum depth of cover for culinary water lines unless otherwise shown on the plans shall be four (4) feet.
3. All pipe shall include a 3-inch magnetic locator tape installed in the pipeline trench approximately 12-inches below the ground surface. Identification tape shall be furnished with white or black printing on an approved colored field having the words:

CAUTION: UTILITY DESCRIPTION - BELOW.

4. All gate valves shall be located near to tees or crosses and their associated reducers as shown on the project plans.
5. Thrust blocking shall be applied at all tees, valves, plugs, caps and at bends deflecting 11 1/4 degrees or more. The fitting shall be encased in a protective plastic wrap before the thrust block is poured. Reaction blocking shall be concrete having a compressive strength of not less than 3000 pounds per square inch at 28 days. Blocking shall be placed between undisturbed soil and the fitting to be anchored. The area of bearing on the pipe and on the ground shall be as shown in the Drawings. The blocking shall be so placed that the pipe and the fittings will be accessible for repair.
6. There shall be 10 feet minimum of horizontal separation distance between all new water lines and new sewer lines. Exceptions occur where service lines are installed in a common trench and at crossings. Building water and sewer services may be installed in the same trench if it is placed on a solid shelf excavated at one side of the common trench. A minimum of 12 inches of vertical separation shall be maintained at all locations. Joints in water pipe should be 10 feet from crossings with sewer. Sewer within 10 feet of such crossings shall be mechanical joint cast iron or equal.
7. All crosses and tees shall be installed with the branches having the size of the largest intersecting pipe unless otherwise shown. The connections to smaller lines shall then be made by means of reducers from the tee or cross, unless otherwise shown on plans.
8. All air release and combination air valves shall be installed at the crest of the vertical curvature of the water line. Contractor shall record actual field stationing on record drawings.
9. All pipe shall be pressure tested as required in the specifications.
10. Culinary water lines shall be disinfected per the specifications and AWWA requirements.

GRAVITY PIPE

1. Minimum depth of cover for sewer lines unless otherwise shown on the plans shall be four (4) feet.
2. All concrete pipe shall be installed accurately to the defined line and grade shown on the plans. Pipe shall be laid in a straight horizontal and vertical line between manholes or junction boxes.
3. Gravity pipe lines shall be tested per the specifications.
4. Install pipe downstream to upstream.

MISCELLNEOUS UTILITES

1. All utility conduits shall be schedule 40 with long sweeps.
2. All utilities shall be buried a minimum of 36 inches below finished grade
3. All phone and communication lines to be placed in conduit under paved surfaces unless noted on the plans
4. Direct bury telephone and communication lines shall be surrounded by 6 inches of sand.
5. A minimum clearance of 24 inches shall be maintained between power conduits and other communication utilities.
6. Install a pull string with a 800 # capacity in all blank conduits.

EARTHWORK

1. The material shall be deposited in horizontal layers having a thickness of not more than eight inches prior to being compacted as hereinafter specified;
2. The moisture of compacted material shall be controlled at two percent plus or minus of the optimum moisture as determined by AASHTO T-180.
3. When the material has been conditioned as hereinbefore specified, the backfill or embankment shall be compacted as follows:
- (a) Under roadways and extending one foot beyond the proposed back of walk, the fill or embankment material shall be compacted to a density equal to not less than 96% of maximum dry density as measured by AASHTO T-180.
- (b) Under sidewalks and drive approaches the fill or embankment material (to at least one foot each side of the edge of the slab) shall be compacted to a density equal to not less than 96% of maximum dry density, as measured by AASHTO T-180.
- (c) Other fills and embankments not listed above shall be compacted to a density equal to not less than 90% of maximum dry density, as measured by AASHTO T-180.

CONCRETE

1. All concrete required on this project shall be as noted in section 3300 of the project specification or other mix design approved by engineer.
2. Portland cement shall be Type II and shall comply with the Standard Specification for Portland Cement, ASTM C-150.
3. Deformed Billet-Steel Bars for Concrete Reinforcement (Grade 40 or Grade 60) - ASTM Designation A-615.
4. All bars shall be of the size specified and shall be placed in the positions shown on the Drawings in such a manner as to be firmly held during the placing of the concrete. Where not otherwise indicated, minimum clearance and cover as required by the ACI 318 Code, latest edition.
5. Metal ties or anchorages within the forms shall be equipped with cones, she-bolts or other devices that permit their removal to a depth of at least one inch without injury to the concrete.
6. All edges that will be exposed to view when the structure is completed shall be chamfered by placing molding in the forms, unless finishing with molding tools.

CONCRETE FINISH

1. All exposed vertical exposed surfaces shall receive a sack rubbed finish.
2. All non-exposed vertical exposed surfaces shall have ties and forming devices removed and remaining holes packed with a cement mortar mix.
3. All exposed horizontal surfaces on the concrete shall be accurately screeded to grade, floated, then broom finished, unless specified otherwise.
4. Joints and edges on unformed surfaces that will be exposed to view shall be chamfered or finished with molding tools.
5. Concrete shall not be mixed nor placed when the daily minimum atmospheric temperature is less than 40 degrees unless facilities are provided to prevent the concrete from freezing. The use of accelerators or antifreeze compounds will not be allowed.

SURFACE IMPROVEMENTS

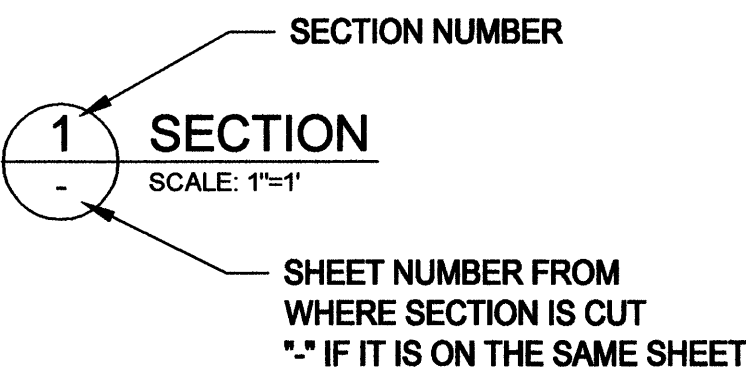
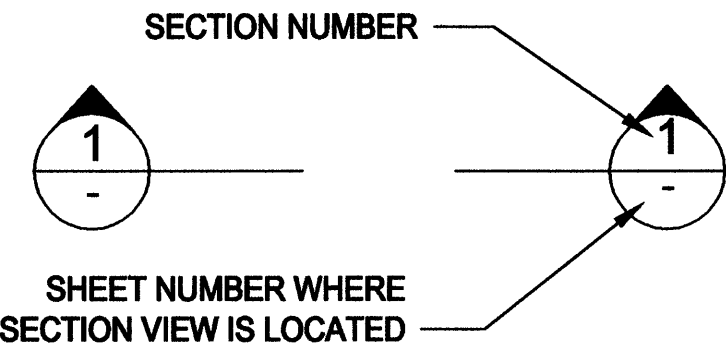
1. The contractor shall retain and protect or remove and replace all landscaping, trees, utilities, ditches, culverts, fences, mailboxes, signs, lightpoles, headgates, existing concrete sidewalks, approaches, curb & gutter and other miscellaneous items. Any damage done by the contractor shall be repaired at his expense.
2. Construction of curb, gutter and sidewalk shall follow installation of storm drain/utilities improvement. Preparation of the area to be paved shall follow completion of the curb, gutter and sidewalk.
3. Sidewalk, curb and gutter, and concrete driveways shall be saw-cut vertically along the lines forming the mainline trench, in such a manner as to not cause damage to adjoining improvements.
4. Materials used for repair or replacement of surface improvements shall be equal to or better than the material removed.
5. Where trenches are in or cross surfaced roads, traffic lanes, driveways, or parking areas, the surface shall be removed, maintained, and restored to original condition or better.
6. All edges of trenches in paved areas shall be sawcut a minimum of 6 inches wider than the width disturbed by the trench excavation prior to placing asphalt patch.
7. Stockpiled topsoil shall be placed over areas disturbed by construction activities.
8. The Contractor shall grade the site to the finished contours shown on the Drawings. The Contractor shall run a track dozer or loader up and down the slopes to create longitudinal depressions in the finished surface to resist erosion and assist seed germination.
9. On sloping hillsides, contractor shall take precautions to mitigate possible erosion problems in the trench from storm water that might occur during or after construction.
10. The Contractor shall revegetate the areas on which topsoil has been placed.

PAVEMENT CONSTRUCTION

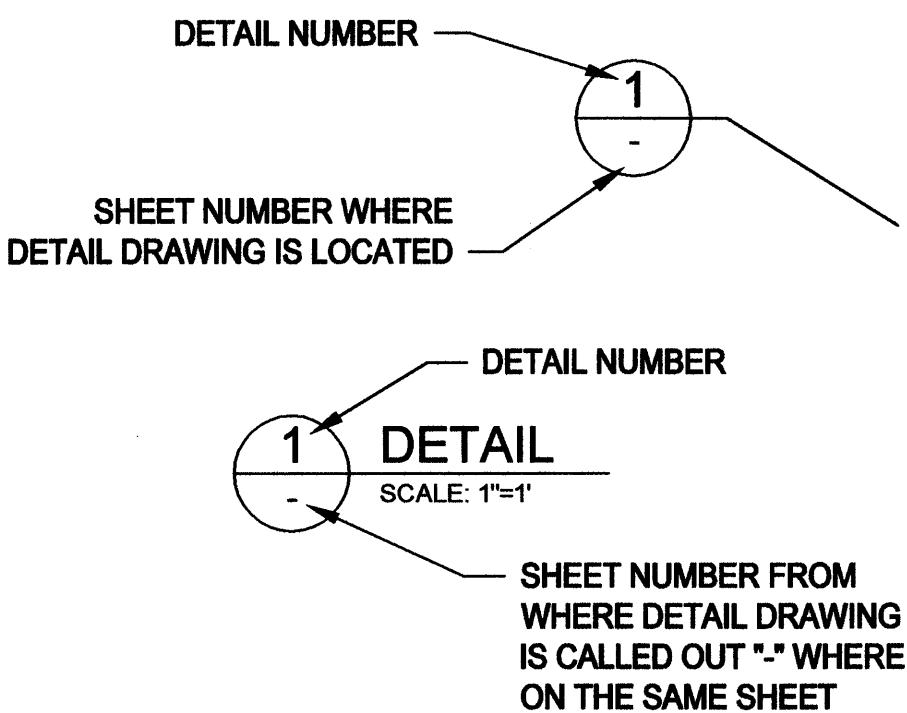
SECTION AND DETAIL IDENTIFIERS

NOTE:  
A DASH MAY BE PLACED IN THE LOWER PORTION OF THE IDENTIFIER IF THE DETAIL DRAWING OR SECTION VIEW IS LOCATED ON THE SAME SHEET.

SECTION IDENTIFICATION



DETAIL IDENTIFICATION



UTILITY CONTACT INFORMATION		
ENTITY	CONTACT PERSON	PHONE
Clearfield Public Works	Scott Hodge	(801) 525-2788
Davis County Environmental Health	Carl Shupe	(801) 451-3296
State of Utah DAS Fuel Network (Fuel Island)	Steve Canning	(801) 619-7232
UDOT Shed Foreman	Kevin Welsh	(801) 940-0829

LINE LEGEND

NEW	EXISTING	
----	----	CENTERLINE
----	----	PROPERTY LINE
----	----	EASEMENTS
----	----	CONTOUR
----	----	CULINARY_WATER
----	----	SECONDARY_WATER
----	----	ELECTRIC
----	----	OVERHEAD_POWER
----	----	UNDERGROUND_POWER
----	----	GAS_LINE
----	----	SANITARY_SEWER
----	----	STORM_DRAIN
----	----	TELEPHONE
----	----	UNDERGROUND_TELEPHONE
----	----	FIBER_OPTICS
----	----	IRRIGATION
----	----	LAND_DRAIN
----	----	CABLE_TV
----	----	DITCH
----	----	CHAINLINK_FENCE
----	----	BARBWIRE_FENCE
----	----	GUARD_RAIL
----	----	EDGE_OF ASPHALT
+++++	+++++	RAILROAD

1. Traffic paint to be acrylic latex for uncured paving (7 days old) and alkyd or chlorinated rubber for cured paving. (3 months old)
2. Apply at 180 sq. ft. / gallon for 2 coats.

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2801 EAST 700 SOUTH  
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DESIGNER

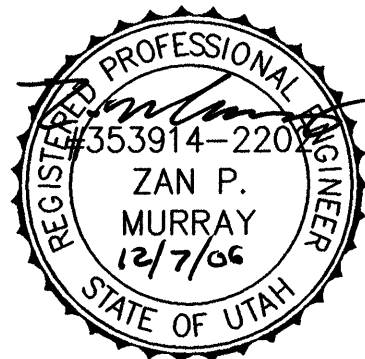
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ISSUE

MARK	DATE	DESCRIPTION
	12/08/06	CONSTRUCTION DOCUMENTS
	08/28/06	95% DESIGN SUBMITTAL
	07/17/06	60% DESIGN SUBMITTAL

DFCM CONTRACT NO:	067477
DFCM PROJECT NO:	06034900
ARCHIPLEX PROJECT NO:	0609.01
DRAWN BY:	MJW
CHECKED BY:	ZPM
SCALE:	N.T.S.
DATE:	DECEMBER 8, 2006

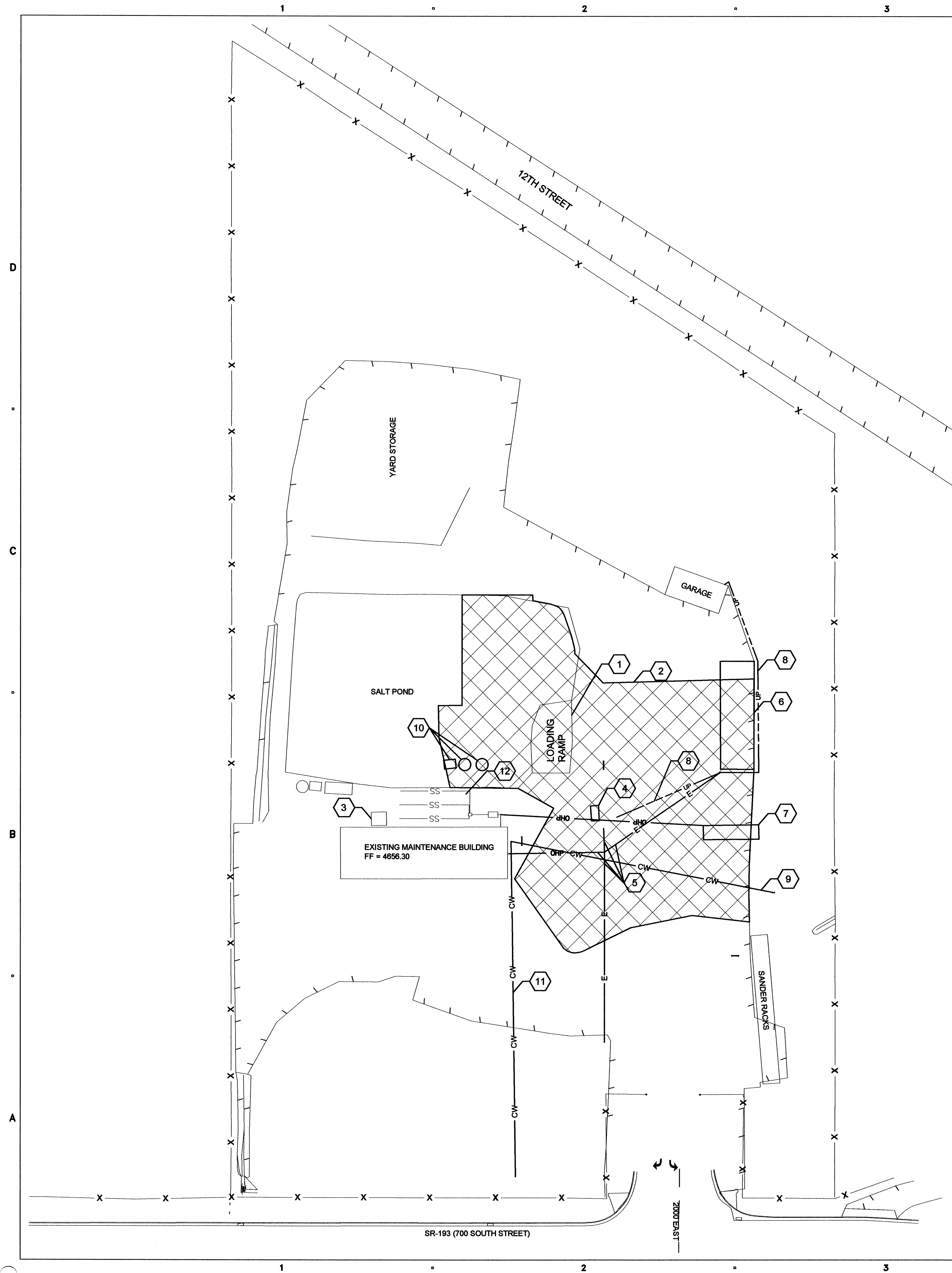
KEY PLAN

SHEET TITLE

CIVIL NOTES

C001



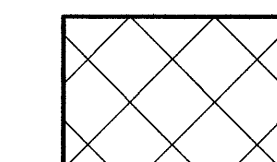


### GENERAL NOTES:

1. ALL WORK TO COMPLY WITH STATE REGULATIONS.
2. CONTRACTOR TO OBTAIN A DEMOLITION PERMIT FROM STATE OF UTAH PRIOR TO DEMOLITION OF BUILDING.
3. COMPLY WITH ALL OSHA REGULATIONS DURING SITE WORK.
5. SAWCUT ALL ASPHALT TO REMAIN 6" FROM EDGE OF SUBBASE DISTURBANCE.
6. LOCATION AND SIZE OF EXISTING UTILITIES IS APPROXIMATE.
7. PROTECT ALL EXISTING UTILITIES THAT ARE TO STAY IN PLACE.

### KEY NOTES: ○

1. MOVE LOADING RAMP (BY OTHERS).
2. SAW CUT AND REMOVE EXISTING APPROXIMATELY 38,370 S.F. OF ASPHALT (HATCHED AREA).
3. COMPLETELY REMOVE AND DISPOSE OF EXISTING WASTE OIL TANK AND CONCRETE ENCLOSURE. DISPOSAL TO COMPLY WITH ALL LOCAL, STATE AND FEDERAL ENVIRONMENTAL REGULATIONS.
4. RELOCATE EXISTING FUEL VAULT (COORDINATE WITH STATE OF UTAH DAS. SEE SHEET C102 FOR FINAL LOCATION.
5. REMOVE POWERPOLES AND POWERLINE.
6. REMOVE OPEN STORAGE FOUNDATION (BUILDING RELOCATED BY OTHERS).
7. REMOVE LAB FOUNDATION (BUILDING RELOCATED BY OTHERS) .
8. DISCONNECT AND CAP OR REMOVE UNDERGROUND POWER (2 PLACES).
9. REMOVE SECTION OF EXISTING WATERLINE AND CAP NEAR EXISTING BUILDING.
10. RELOCATE (1) SHED AND (2) POLY TANKS. SEE SHEET C102 FOR LOCATION
11. DISCONNECT AND CAP PORTION OF EXISTING WATER SERVICE AFTER NEW SERVICE LINE IS FUNCTIONAL.
12. ABANDON SEPTIC TANK AND ABSORPTION FIELD.



REMOVE ASPHALT

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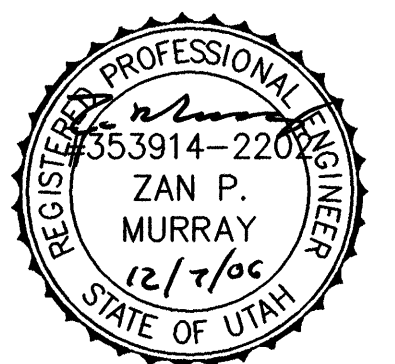
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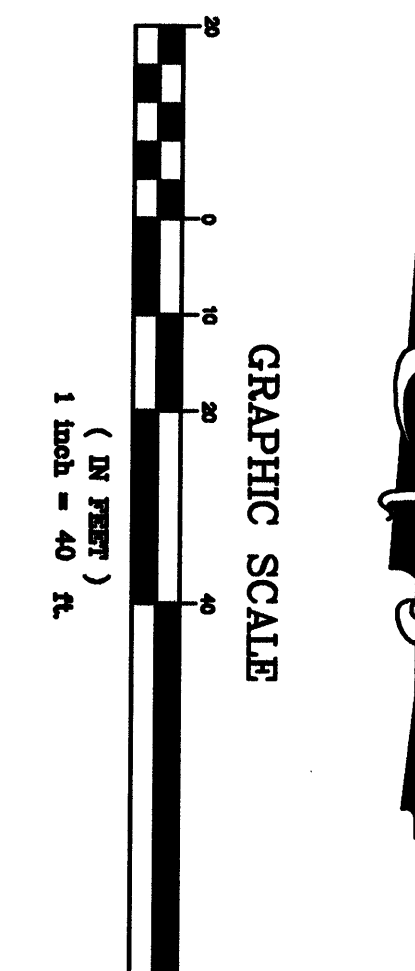
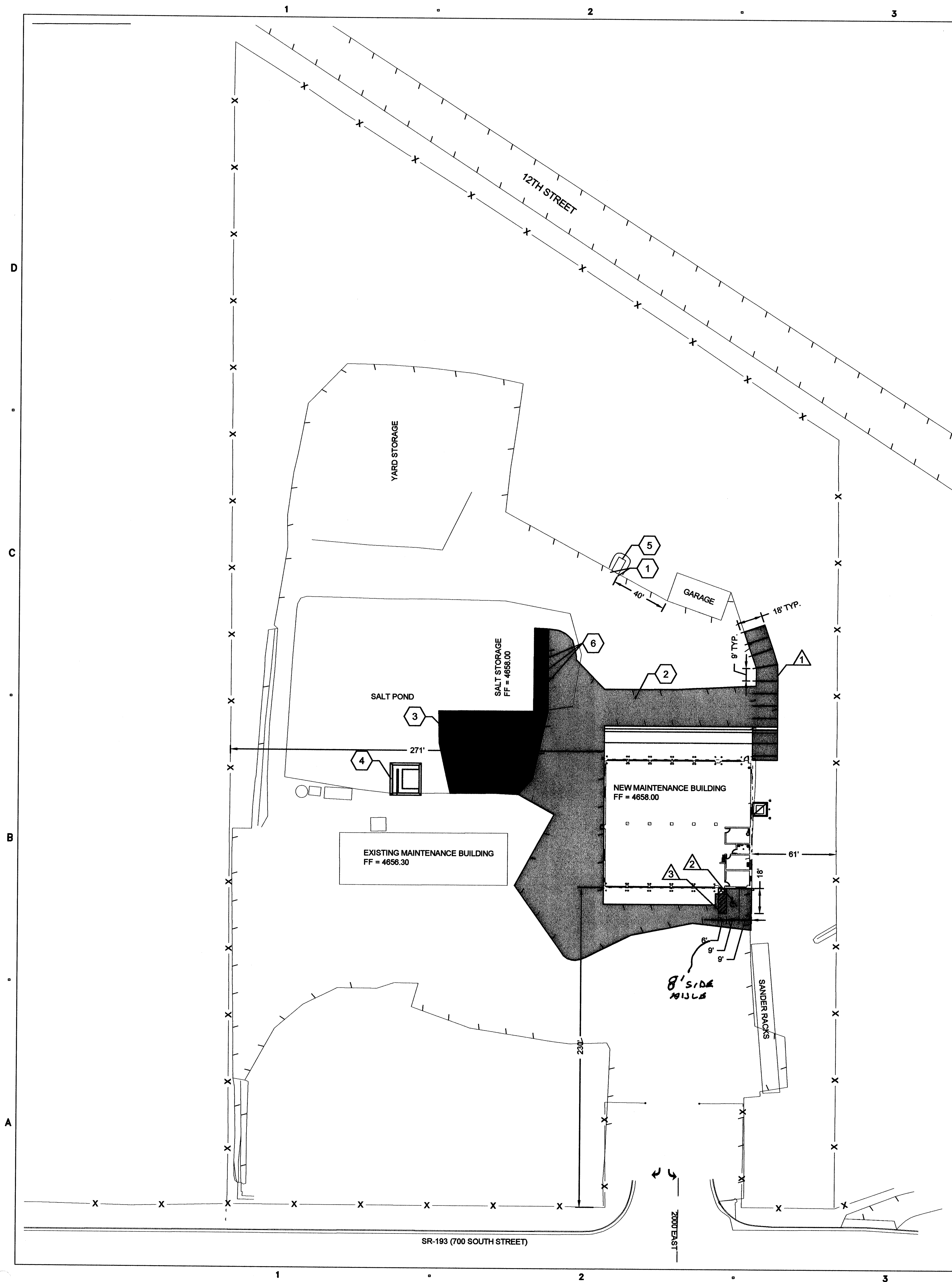
### KEY PLAN

### SHEET TITLE

**DEMOLITION PLAN**

**C101**





# GENERAL NOTES:

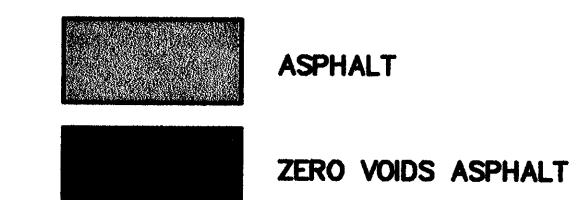
1. ALL WORK TO COMPLY WITH STATE REGULATIONS.
2. COMPLY WITH ALL OSHA REGULATIONS DURING SITE WORK.
3. STRIPE PER SPECIFICATIONS AND NOTES ON C001.

# KEY NOTES: ○

1. INSTALL CONCRETE BOLLARD AS PER DETAIL B2/AE502.
2. INSTALL ASPHALT IN SHADED AREA AS PER SECTION A/CS01. APPROXIMATELY 17,000 S.F. SEE UTILITY PLAN AND SECTION E/CS01 FOR ASPHALT REQUIREMENTS OVER UTILITY TRENCHES.
3. INSTALL ZERO VOIDS ASPHALT IN DARK SHADED AREA PER SECTION A/501. APPROXIMATELY 4730 S.F. SEE UTILITY PLAN AND SECTION E/CS01 FOR ASPHALT REQUIREMENTS OVER UTILITY TRENCHES.
4. WASH RACK.
5. NEW LOCATION FOR FUEL VAULT. PROVIDE 7'X12', 8" CONCRETE PAD WITH #4 BAR @ 12" O.C.
6. NEW LOCATION OF (1) SHED AND (2) POLY TANKS.

# STRIPING NOTES: △

1. 4" YELLOW STRIPE (TYP)
2. HANDICAP SYMBOL
3. 4" YELLOW HASHING (24" SPACING, 45° ANGLE)



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DFCM CONTRACT NO:	067477
DFCM PROJECT NO:	06034900
ARCHIPLEX PROJECT NO:	0609.01
DRAWN BY:	MJW
CHECKED BY:	ZPM
SCALE:	AS SHOWN
DATE:	DECEMBER 8, 2006

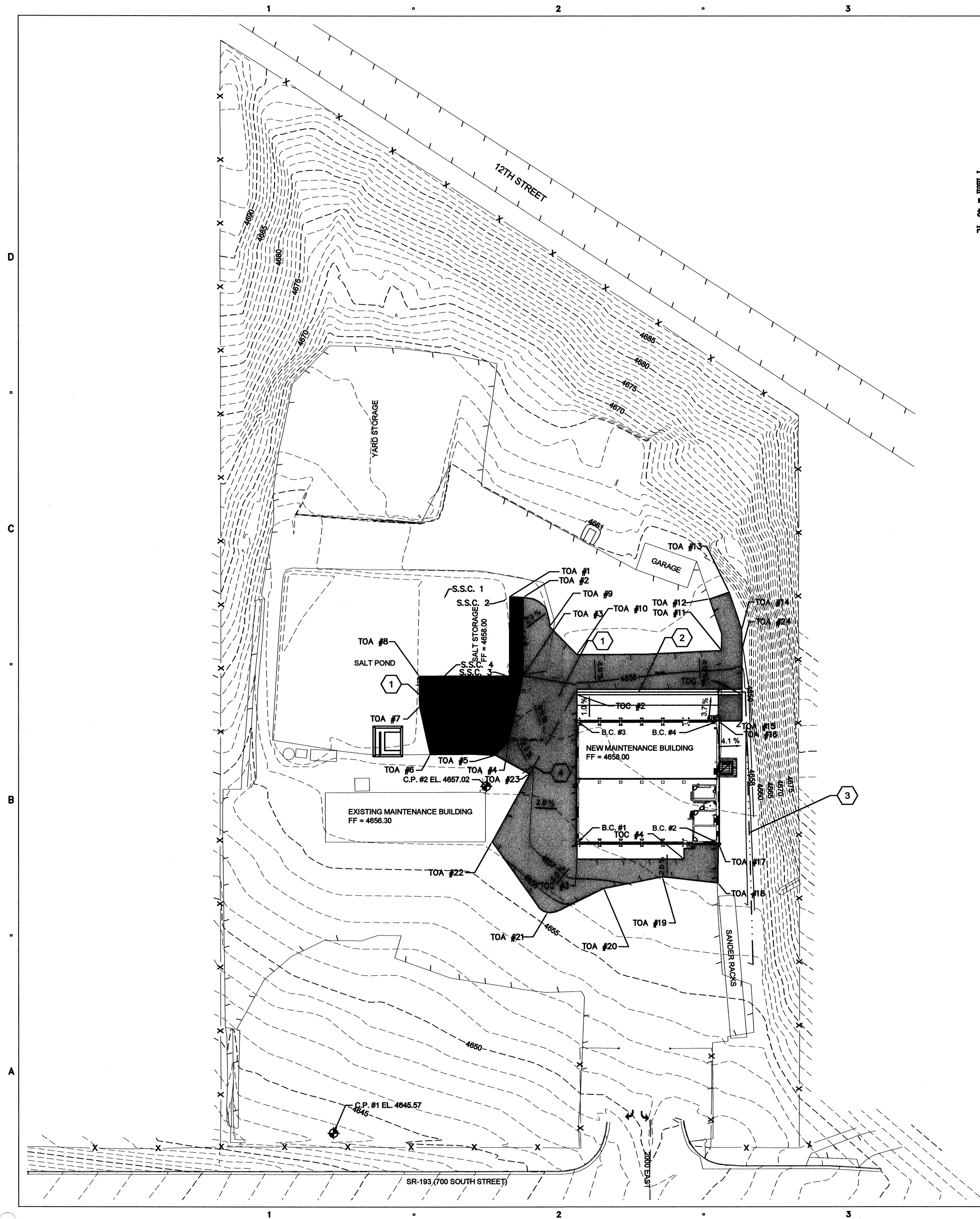
## KEY PLAN

## SHEET TITLE

**SITE PLAN**

**C102**





# GENERAL NOTES:

1. ALL WORK TO COMPLY WITH STATE REGULATIONS.
2. ALL ACCESSABLE ROUTES TO CONFORM TO ADA STANDARDS, LATEST EDITION.
3. ALL CONCRETE AND ASPHALT THAT ABUTS THE NEW BUILDING HAS A STARTING TOP OF SURFACE ELEVATION OF 4658.00 AND SLOPES AWAY FROM THE BUILDING AS SHOWN ON THE PLAN.
4. LOW POINT IN GRADE.

## KEY NOTES:

1. GRADING UNDER NEW ASPHALT AS PER CIVIL SPECIFICATIONS
2. INSTALL CONCRETE CROSS DRAIN AS PER SECTION B/C501. EXTEND CONCRETE APRON SHOW ON ARCHITECTURAL PLAN 8' TO EDGE OF CROSS DRAIN.
3. DRAINAGE SWALE PER SECTION E/C501 (LINE WITH 1" ROCK). MIN. SLOPE = 0.5% DAYLIGHT TO EXISTING GRADE.

## BUILDING COORDINATE TABLE:

POINT	NORTHING	EASTING	ELEVATION
C.P. #1	198,085.94	85,860.42	
C.P. #2	198,347.92	85,976.46	
B.C. #1	198,304.81	86,045.40	
B.C. #2	198,304.81	86,152.73	
B.C. #3	198,397.14	86,045.40	
B.C. #4	198,397.14	86,152.73	
*S.S.C. #1	198,490.15	85,944.55	
*S.S.C. #2	198,490.15	85,992.05	
*S.S.C. #3	198,431.40	85,944.55	
*S.S.C. #4	198,431.40	85,992.05	
TOA #1	198,491.40	85,994.38	MATCH EX.
TOA #2	198,490.84	86,004.62	MATCH EX.
TOA #3	198,431.45	86,004.58	4658.00
TOA #4	198,382.50	85,993.68	4657.60
TOA #5	198,371.45	85,983.24	MATCH EX.
TOA #6	198,371.97	85,933.92	MATCH EX.
TOA #7	198,408.22	85,925.77	MATCH EX.
TOA #8	198,431.34	85,925.45	MATCH EX.
TOA #9	198,468.85	86,024.61	MATCH EX.
TOA #10	198,447.62	86,045.40	MATCH EX.
TOA #11	198,450.62	86,155.16	MATCH EX.
TOA #12	198,489.58	86,146.10	MATCH EX.
TOA #13	198,494.69	86,160.96	4659.00
TOA #14	198,466.28	86,170.49	4658.92
TOA #15	198,397.14	86,170.73	4657.14
TOA #16	198,397.14	86,152.73	4657.94
TOA #17	198,304.81	86,152.73	4658.00
TOA #18	198,274.73	86,110.24	MATCH EX.
TOA #19	198,278.39	86,110.24	MATCH EX.
TOA #20	198,270.60	86,065.79	MATCH EX.
TOA #21	198,252.48	86,022.86	MATCH EX.
TOA #22	198,305.96	85,980.84	MATCH EX.
TOA #23	198,357.01	86,008.22	MATCH EX.
TOA #24	198,456.40	86,170.73	4658.93
TOC #1	198,421.14	86,152.73	4657.17
TOC #2	198,421.14	86,045.40	4657.80
TOC #3	198,292.81	86,045.40	4657.76
TOC #4	198,292.81	86,126.57	4657.76

\* S.S.C. POINTS ARE TO INSIDE OF CONCRETE WALL

## ABBREVIATIONS:

- TOA - TOP OF ASPHALT  
TOC - TOP OF CONCRETE  
TOW - TOP OF SIDEWALK  
C.P. - CONTROL POINT  
B.C. - BUILDING CORNER  
S.S.C. - SALT STORAGE CORNER

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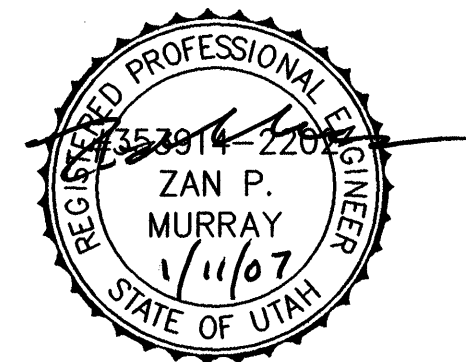
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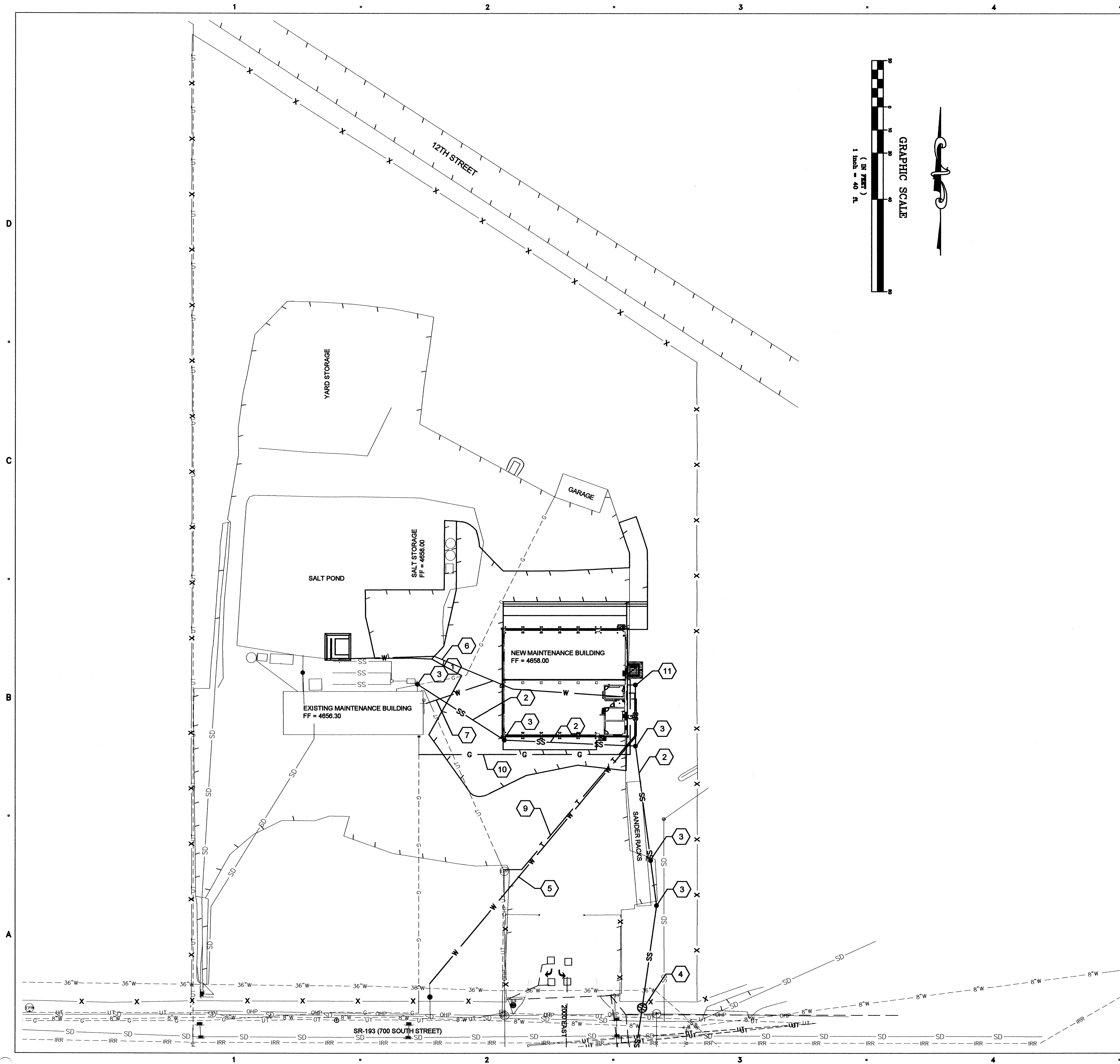
KEY PLAN

SHEET TITLE

**GRADING PLAN**

**C103**





# GENERAL NOTES:

1. ALL WORK TO COMPLY WITH STATE REGULATIONS.
2. ALL WORK TO COMPLY WITH THE INTERNATIONAL CODES 2003 EDITION.
3. ALL WATER LINES TO HAVE A MINIMUM OF 4' COVER.
4. LOCATIONS OF ALL UTILITIES ARE APPROXIMATE. FIELD VERIFICATION SHOULD OCCUR PRIOR TO EXCAVATION.
5. SEE DRAWING E100 FOR ELECTRICAL SITE PLAN.

# KEY NOTES:

1. CONNECT NEW SEWER LINE TO EXISTING BUILDING SEWER.
2. 4" PVC SEWER LINE. MIN. SLOPE = 2%.
3. INSTALL CLEANOUT PER DETAIL 3 ON SHEET 501. MAX SPACING = 100'.
4. CONNECT TO NEW MANHOLE (SEE SHEET C401 FOR NEW SEWER CONNECTION AND MANHOLE INSTALLATION).
5. 2" PVC WATERLINE FROM METER TO NEW BUILDING.
6. 2" PVC WATERLINE FROM BOOSTER PUMP TO WASH RACK. PROVIDE STOP AND WASTE AT WASH RACK LOCATION.
7. 3/4" WATERLINE TO EXISTING BUILDING.
8. NOT USED.
9. PHONE LINE TO NEW BUILDING.
10. GAS LINE TO NEW BUILDING.
11. SAMPLING MANHOLE FOR SAND/OIL SEPARATOR (SEE MECHANICAL DRAWING)

CLIENT

## CLEARFIELD MAINTENANCE FACILITY

STATION #1424  
2001 EAST 700 SOUTH  
CLEARFIELD, UTAH 84015

DESIGNER

**ARCHIPLEX**  
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Salt Lake City, UT 84101  
P: (801) 961-7070  
F: (801) 961-7373

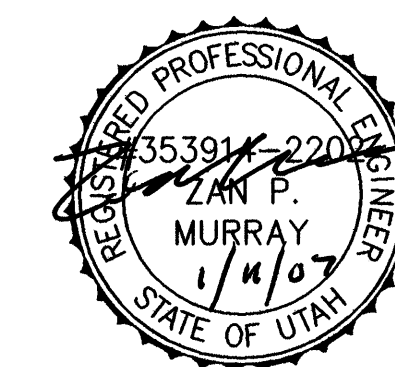
CONSULTANTS

**J.U.B.**

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Logan, UT 84341  
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Fax: (435) 713-9503  
JUB.com

PROFESSIONAL SEAL



ISSUE

MARK	DATE	DESCRIPTION
	12/08/06	CONSTRUCTION DOCUMENTS
	08/28/06	95% DESIGN SUBMITTAL
	07/17/06	60% DESIGN SUBMITTAL

DFCM CONTRACT NO:	067477
DFCM PROJECT NO:	06034900
ARCHIPLEX PROJECT NO:	0609.01
DRAWN BY:	MJW
CHECKED BY:	ZPM
SCALE:	AS SHOWN
DATE:	DECEMBER 8, 2006

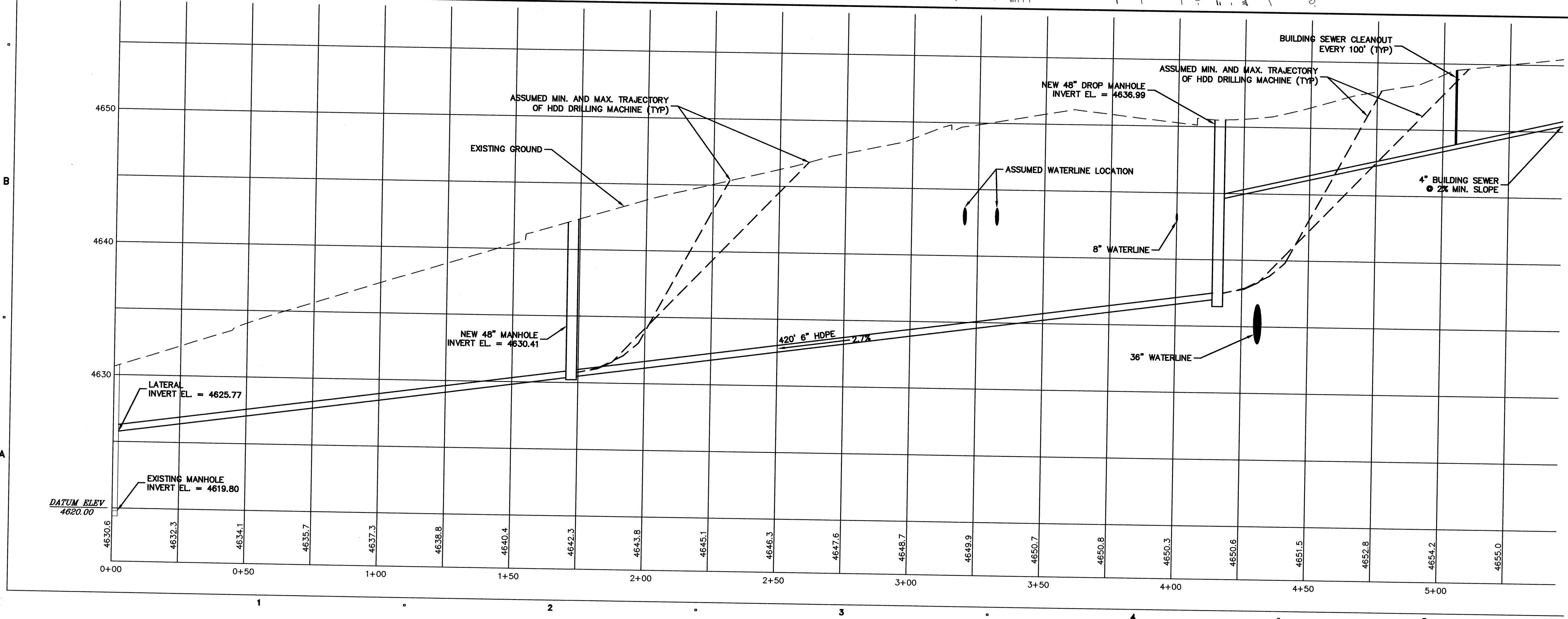
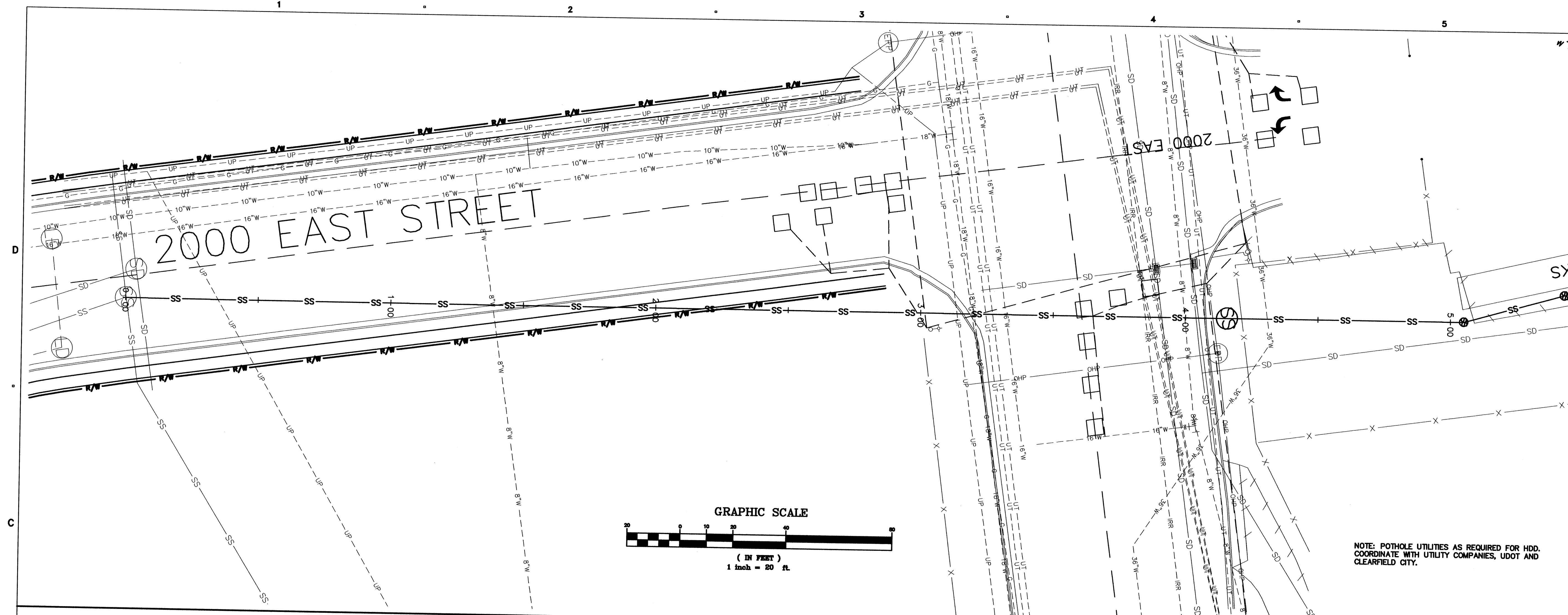
KEY PLAN

SHEET TITLE

UTILITY PLAN

C104





CLIENT

# CLEARFIELD MAINTENANCE FACILITY

STATION #1424  
2001 EAST 700 SOUTH  
CLEARFIELD, UTAH 84015

DESIGNER

**ARCHIPLEX**  
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architecture • planning • design services

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P: (801) 961-7070  
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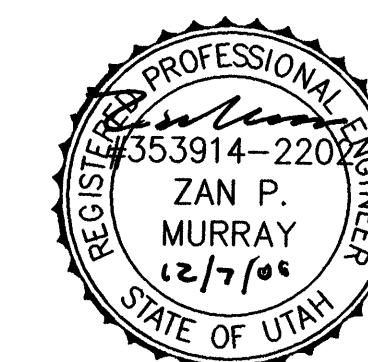
CONSULTANTS

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PROFESSIONAL SEAL



ISSUE

12/08/06	CONSTRUCTION DOCUMENTS
08/28/06	95% DESIGN SUBMITTAL
07/17/06	60% DESIGN SUBMITTAL

MARK DATE DESCRIPTION

DFCM CONTRACT NO: 067477  
DFCM PROJECT NO: 06034900  
ARCHIPLEX PROJECT NO: 0609.01

DRAWN BY:

CHECKED BY:

SCALE: HORIZ. 1" = 20', VERT. 1" = 4'

DATE: DECEMBER 8, 2006

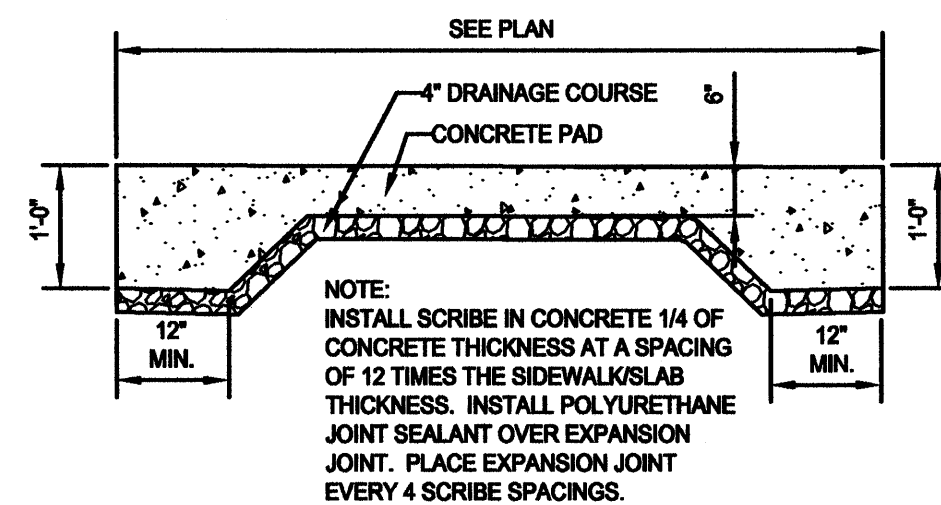
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SHEET TITLE

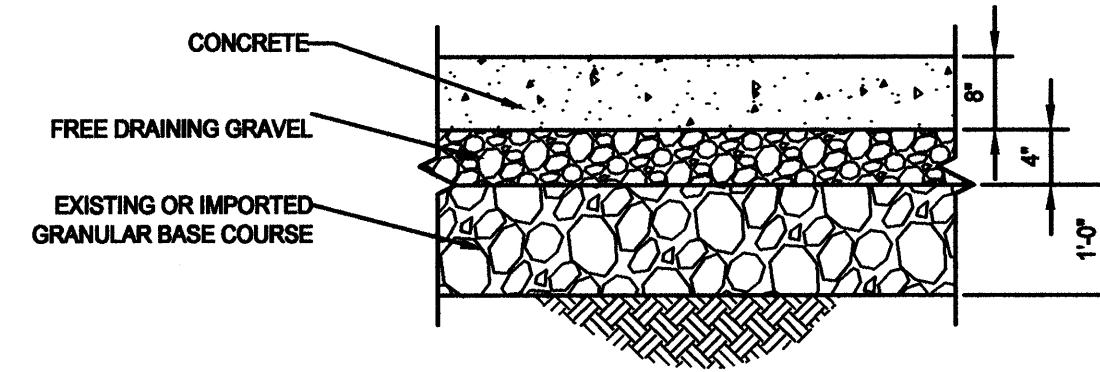
SEWER CONNECTION  
PLAN & PROFILE

C401

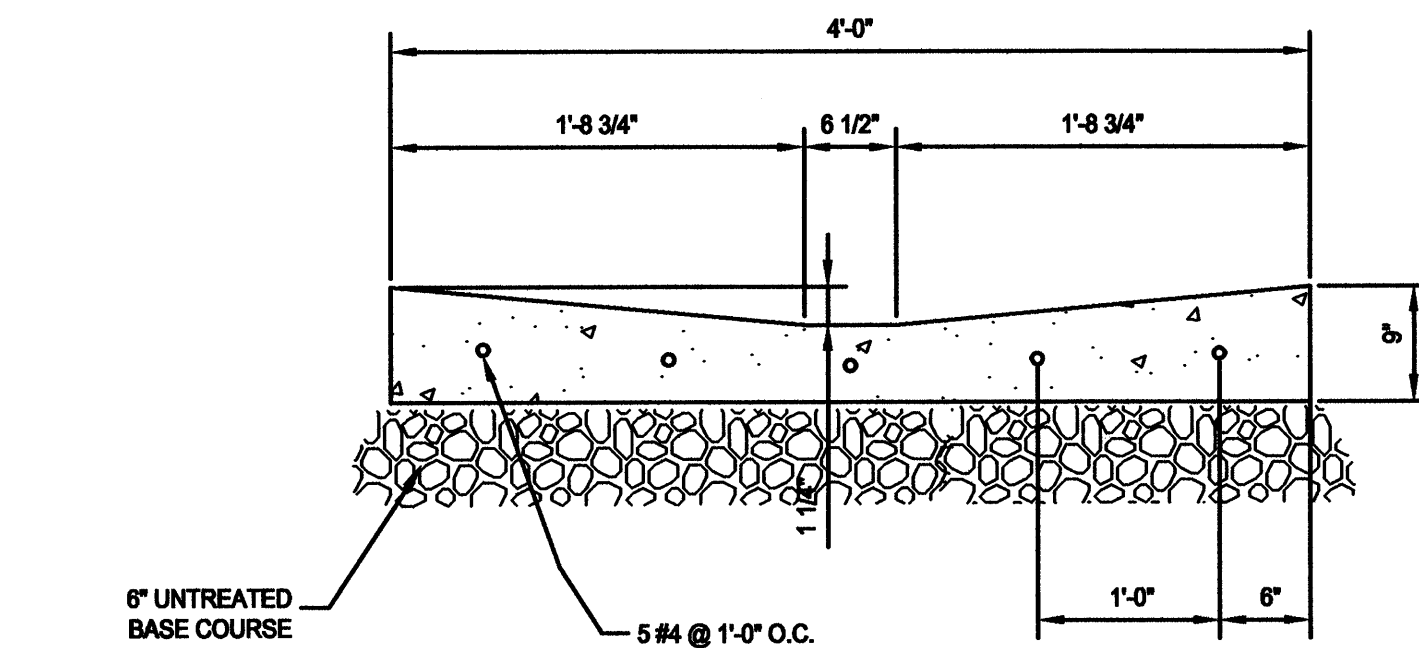




1 CONCRETE PAD DETAIL  
SCALE: NTS

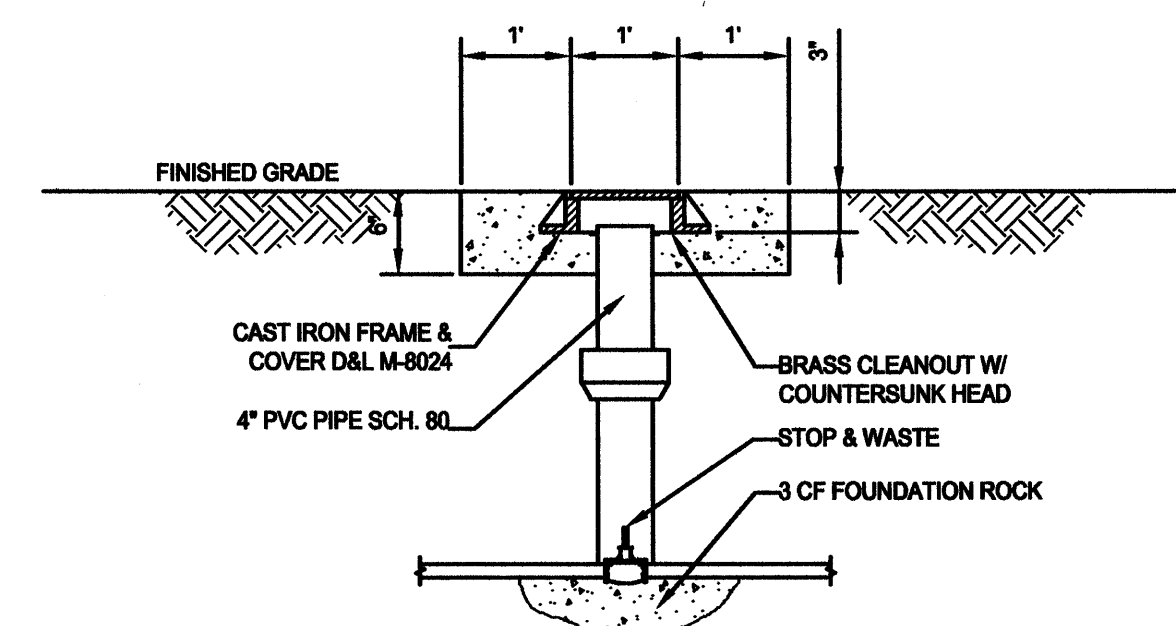


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SCALE: NTS

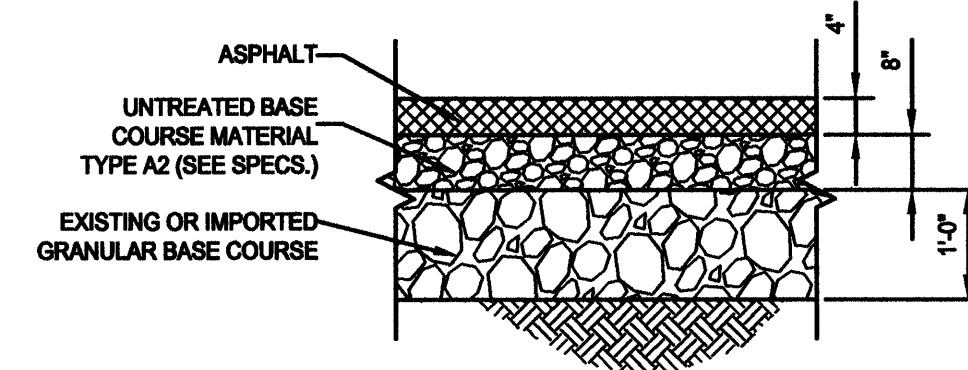


NOTE:  
CONSTRUCTION & EXPANSION JOINTS @ 5'  
EXPANSION JOINTS @ EDGE OF APRON

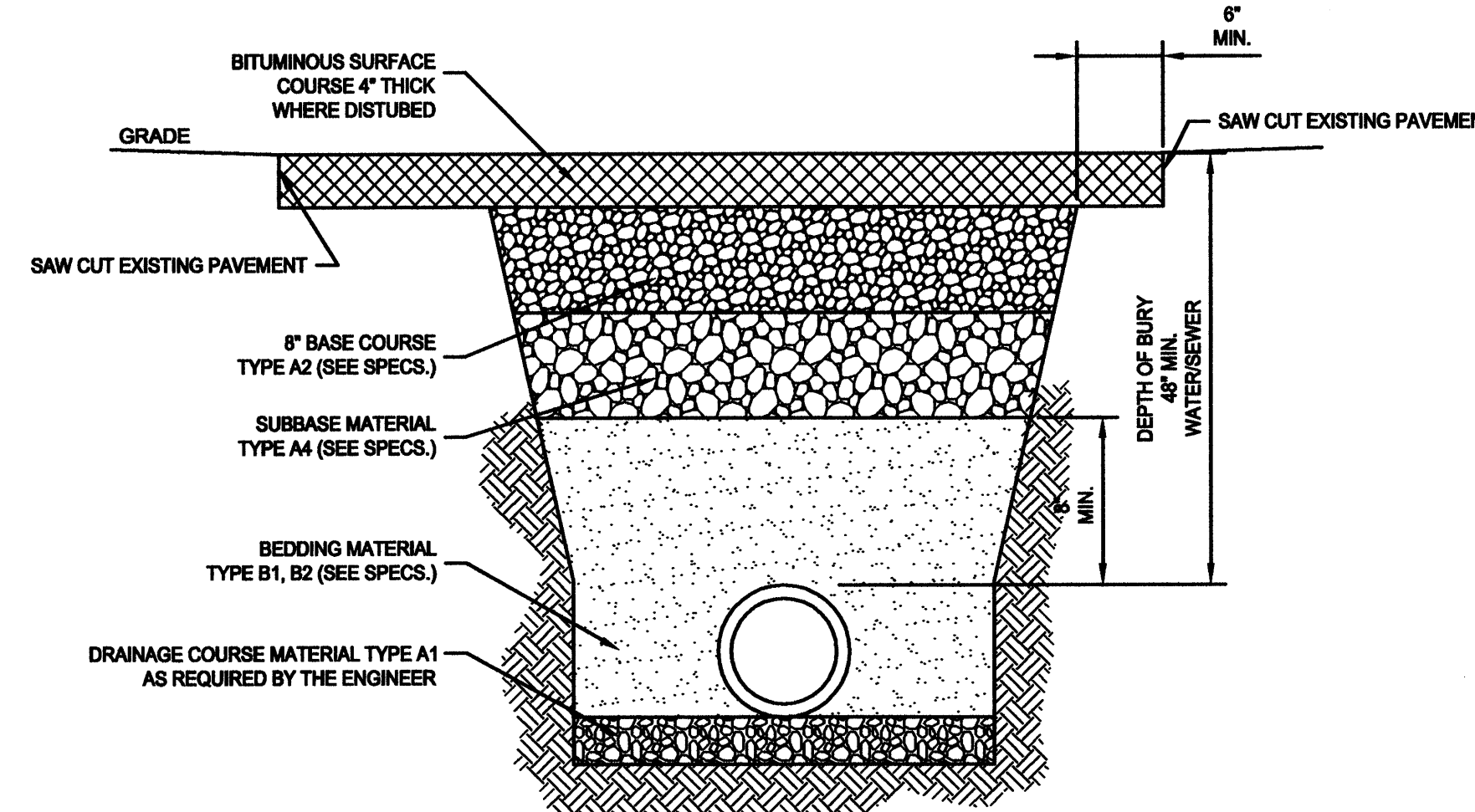
B CROSS DRAIN SECTION  
SCALE: NTS



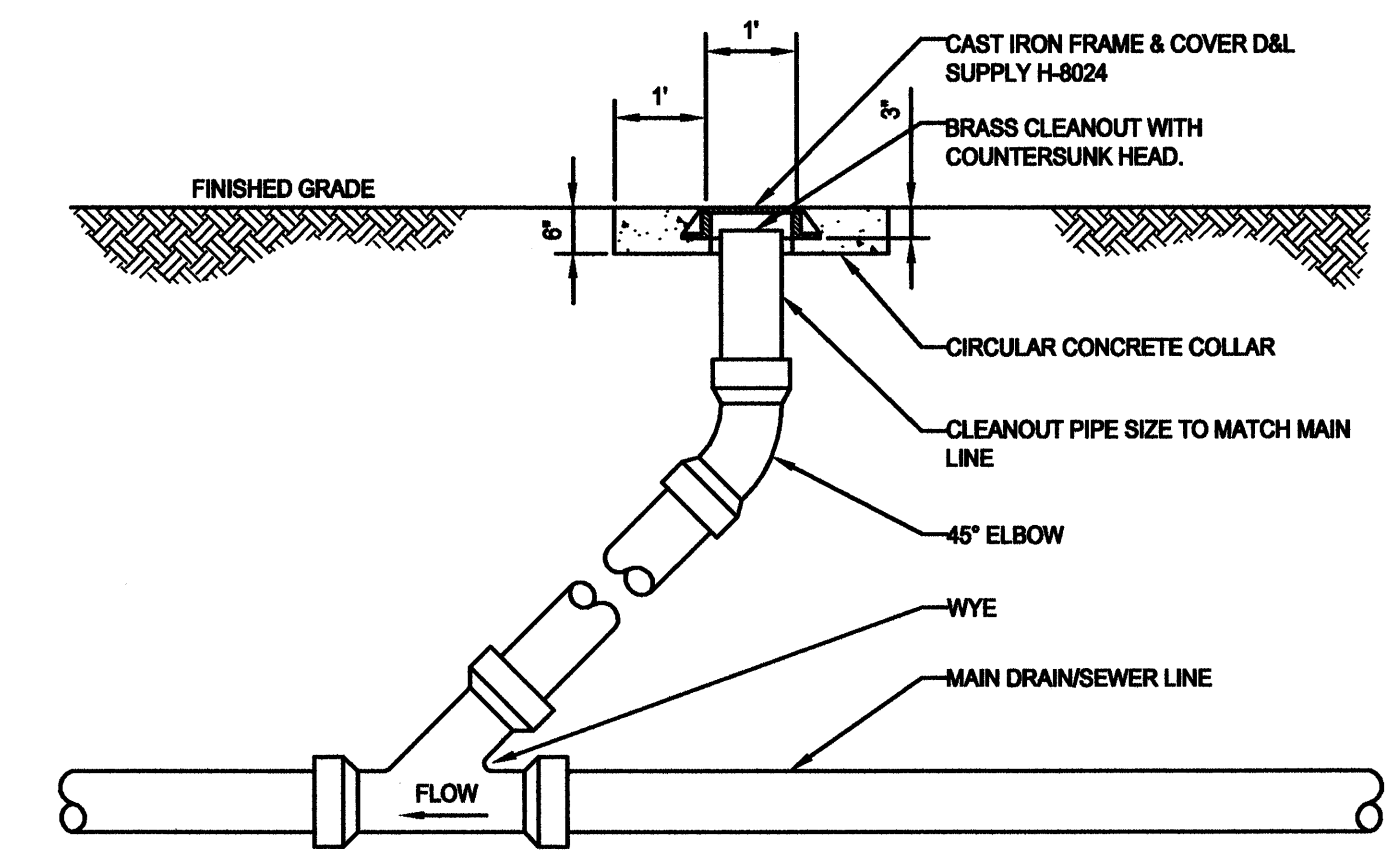
2 STOP & WASTE DETAIL  
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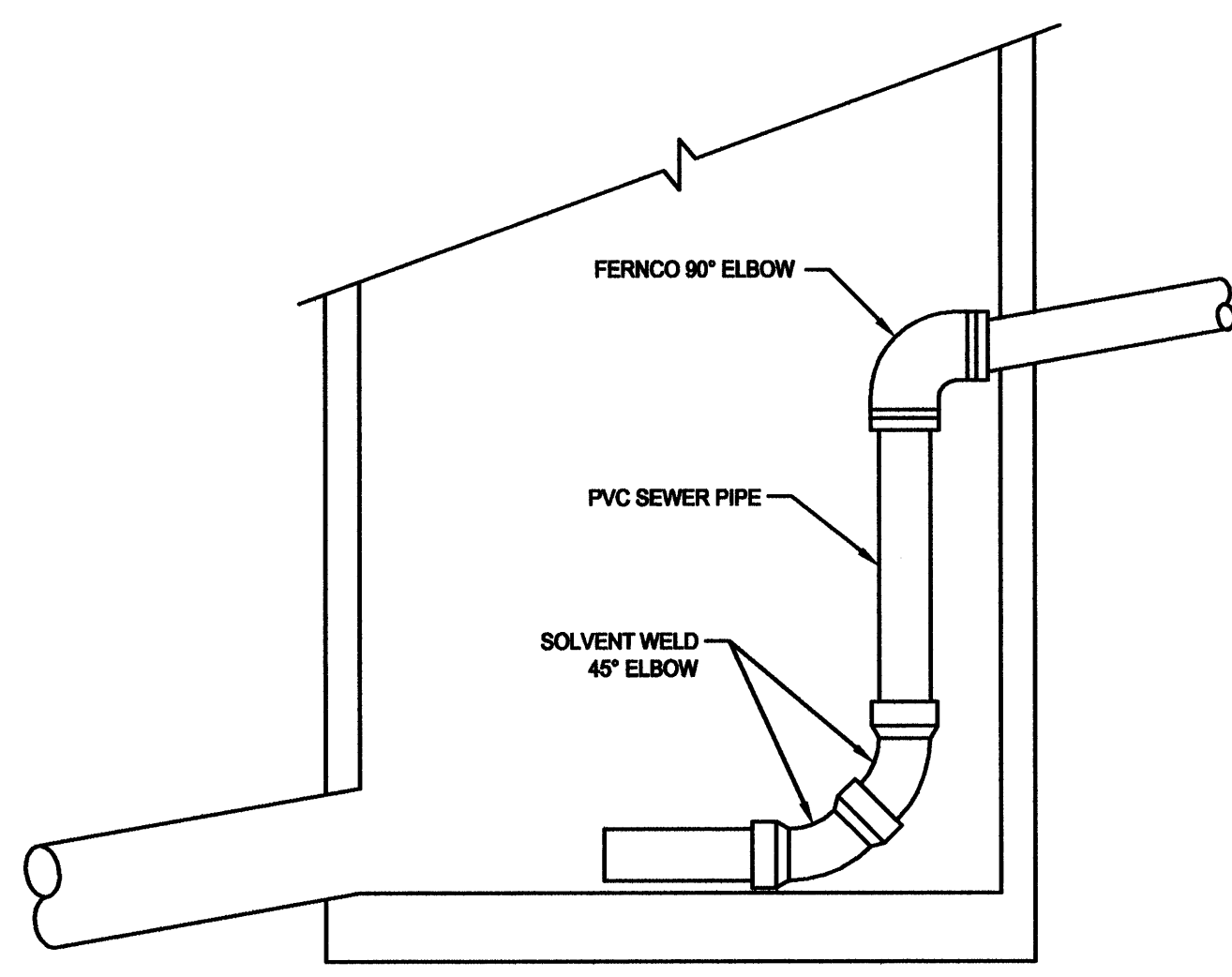
C ASPHALT SECTION  
SCALE: NTS



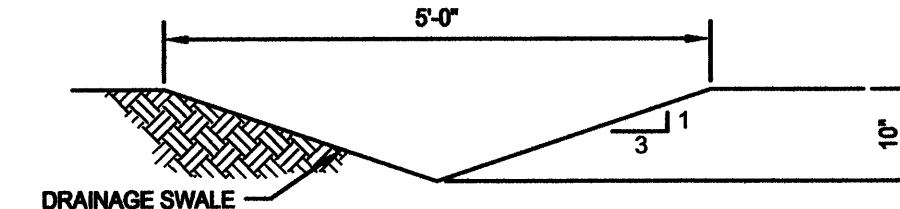
D TRENCH SECTION (ASPHALT)  
SCALE: NTS



3 SEWER/DRAIN LINE CLEANOUT DETAIL  
SCALE: NTS



4 INTERIOR DROP MANHOLE  
SCALE: NTS



E DRAINAGE SWALE SECTION  
SCALE: NTS

CLIENT

CLEARFIELD  
MAINTENANCE  
FACILITY  
STATION #1424  
2001 EAST 700 SOUTH  
CLEARFIELD, UTAH 84015

DESIGNER

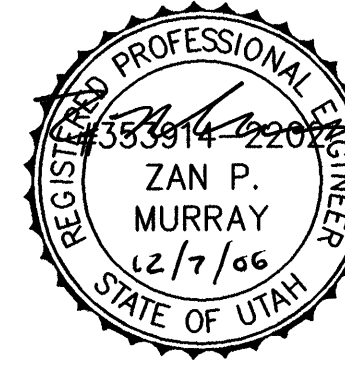
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PROFESSIONAL SEAL



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DFCM CONTRACT NO:	067477
DFCM PROJECT NO:	06034900
ARCHIPLEX PROJECT NO:	0609.01
DRAWN BY:	MJW
CHECKED BY:	
SCALE:	1/8"=1'-0"
DATE:	DECEMBER 8, 2006

KEY PLAN

SHEET TITLE

CIVIL DETAILS

C501

# GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.
2. DO NOT SCALE DRAWINGS.
3. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
4. PROVIDE BACKING BEHIND ALL SURFACE MOUNTED EQUIPMENT AND/OR FIXTURES PER DETAIL C3/AE401
5. SEE SHEET A1/AE501 FOR WALL TYPES.
6. TWO BOLLARDS REQUIRED PER SECTIONAL DOOR JAMB. ALIGN WITH DOOR JAMB. SEE DETAILS A5 & B5/AE301.
7. SEE SHEET AE602 FOR WINDOW FRAME TYPES & DETAILS.

# GENERAL NOTES - CONT.

8. SEE STRUCTURAL DRAWINGS FOR CONSTRUCTION/CONTROL JOINT LOCATIONS IN CONCRETE SLAB.
9. ALL DIMENSIONS ARE TO FACE OF WALL, UNLESS NOTED OTHERWISE.
10. COORDINATE LOCATION & SIZE OF CONCRETE PIER WITH THE STRUCTURAL ENGINEER AND THE METAL BUILDING MANUFACTURER TO MEET ALL ADA REQUIREMENTS.
11. COLUMNS SHOWN ON PLAN ARE SCHEMATIC ONLY. CONTRACTOR TO GET EXACT SIZES AND LOCATIONS FROM APPROVED METAL BUILDING SHOP DRAWINGS.
12. PROVIDE 03053.A0 AT ALL CONCRETE CURBS, PIERS, SLABS, STEM WALL ETC. U.N.O.
13. PROVIDE 03054.A0 OVER ENTIRE FLOOR SLAB AT ROOMS 101, 102, 103 & CONCRETE MEZZANINE.

# KEYNOTES

- 03053.A0 CONCRETE WATER PROOFING ADMIXTURE
- 03054.A0 OLIOPHOBIC TOPICAL SEALER
- 03300.A0 CONCRETE SLAB ON GRADE
- 03300.D0 CONCRETE PAD
- 03300.H1 CONCRETE PIER, RE: STRUCTURAL
- 03300.G0 CONCRETE OVER METAL DECK - RE:STRUCTURAL
- 03300.N0 CONCRETE CURB
- 03300.S1 SPLASH BLOCK
- 05500.J1 PIPE BOLLARD (DIAMETER) GALVANIZED & PAINTED
- 05510.H0 CONCRETE FILLED METAL PAN STAIR - GALVANIZED
- 06105.R3 PROTECTION BOARD (THICKNESS)
- 06402.C1 PAINT GRADE WOOD CAP (THICK)
- 06402.H1 ADJUSTABLE SHELVES (FINISH)
- 06402.P2 COUNTERTOP - P. LAM. ON 3/4" PLYWOOD
- 06402.X0 WORKBENCH (DEPTH)
- 08360.A0 OVERHEAD SECTIONAL DOOR
- 10100.C0 MARKER BOARD (L X H)
- 10425.A0 ROOM SIGNAGE
- 10425.A1 OIL SIGNAGE
- 10425.B1 WELDING SIGNAGE
- 10425.C1 ACCESSIBLE SIGNAGE
- 10425.D1 ACCESSIBLE/UNISEX RESTROOM SIGNAGE
- 10500.A0 METAL LOCKERS (WIDTH)
- 10500.B0 METAL STORAGE CABINETS
- 10522.A0 FIRE EXTINGUISHER
- 10800.B1 SEMI-RECESSED PAPER TOWEL DISPENSER & WASTE RECEPTACLE
- 10800.D0 MOP RACK
- 11151.A0 MOBILE LIFT - NIC - OWNER FURNISHED
- 12511.A0 HORIZONTAL LOUVER BLINDS
- 13125.C2 DOWNSPOUT
- 13125.L4 STEEL COLUMN - PRIMED AND PAINTED
- 14620.A0 TROLLEY HOIST (SIZE) RE: STRUCTURAL
- 15410.C0 UTILITY SINK
- 15410.D1 FLOOR SINK
- 15410.E0 TRENCH DRAIN
- 15412.A0 EMERGENCY SHOWER & EYE WASH
- 15452.A1 DRINKING FOUNTAIN
- 15491.A0 AIR COMPRESSOR
- 15491.C0 OVERHEAD HOSE REELS
- 15887.A1 LOUVER W/BIRD SCREEN

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MAINTENANCE  
FACILITY**  
STATION #1424  
2001 EAST 700 SOUTH  
CLEARFIELD, UTAH 84015

DESIGNER

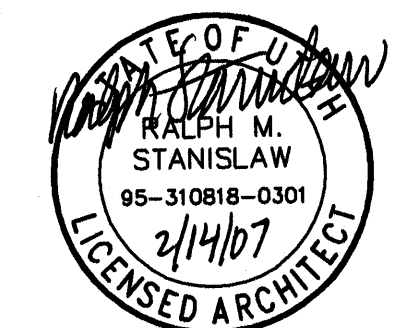
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DFCM CONTRACT NO: 067477  
DFCM PROJECT NO: 06034900  
ARCHIPLEX PROJECT NO: 0609.01  
DRAWN BY: K. PHILLIPS  
CHECKED BY: R. STANISLAW  
SCALE: 1/8"=1'-0"  
DATE: DECEMBER 8, 2006

KEY PLAN

SHEET TITLE

**FIRST FLOOR AND  
MEZZANINE PLANS**

**AE101**

**A1 FLOOR PLAN**

AE101 REF.

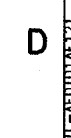
SCALE: 1/8" = 1'-0"


**A4 MECH. MEZZANINE PLAN**

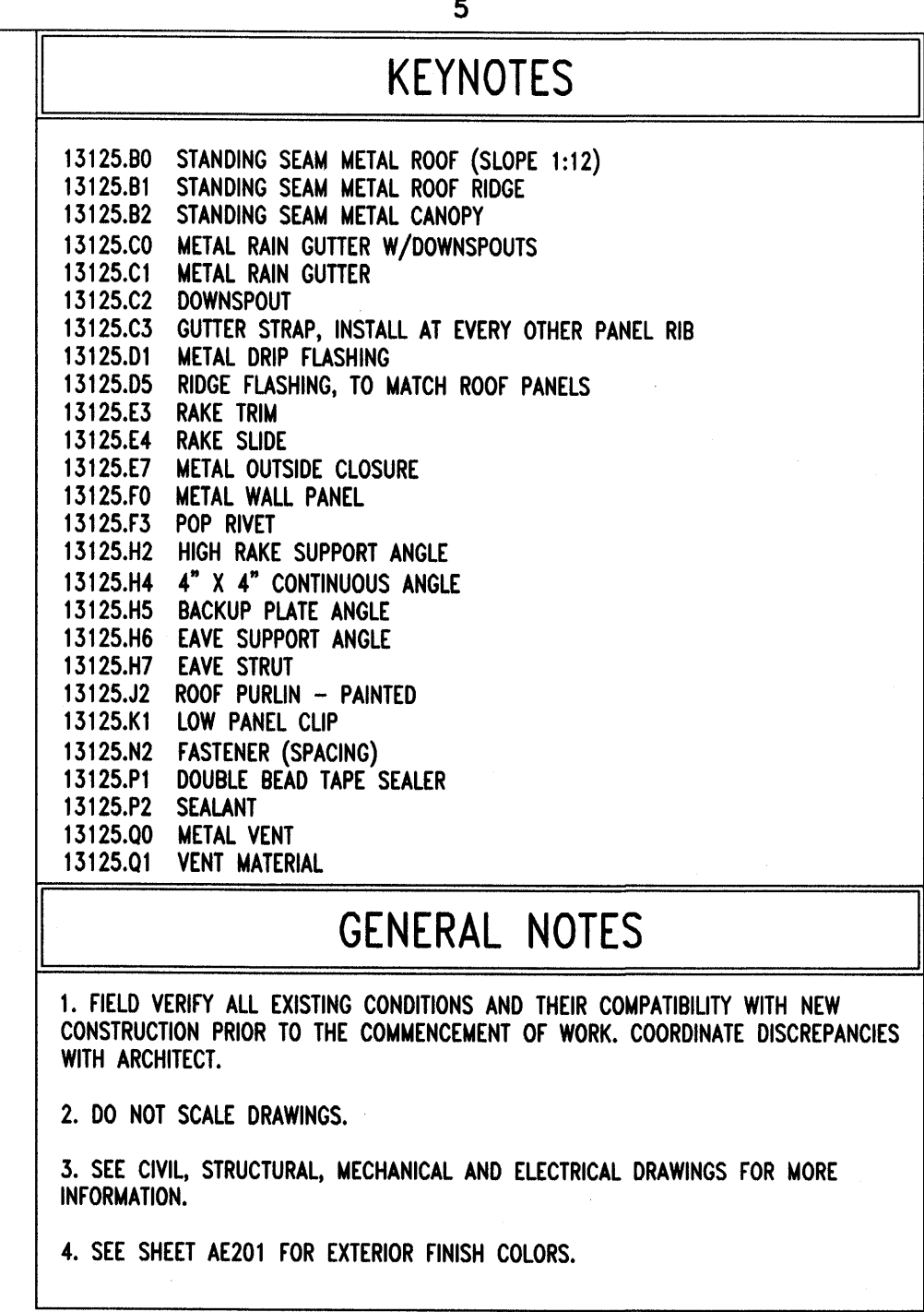
AE101 REF.

SCALE: 1/8" = 1'-0"





<div>CJIENT</div> <div style="text-align: center; margin-top: 20px;"><h2>CLEARFIELD MAINTENANCE FACILITY</h2><p>STATION #1424 2001 EAST 700 SOUTH CLEARFIELD, UTAH 84015</p></div>																	
<div>DESIGNER</div> <div style="text-align: center; margin-top: 10px;"><h1>ARCHIPLEX</h1><p>GROUP</p><div style="border: 1px solid black; padding: 2px; display: inline-block;">architecture • planning • design services</div><p>1135 South West Temple, Ste. A Salt Lake City, UT 84101 P:(801) 961-7070 F:(801) 961-7373</p></div>																	
<div>CONSULTANTS</div>																	
<div>PROFESSIONAL SEAL</div> <div style="text-align: center; margin-top: 20px;"></div>																	
<div>ISSUE</div> <table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th>MARK</th><th>DATE</th><th>DESCRIPTION</th></tr></thead><tbody><tr><td>▲</td><td>01/15/07</td><td>DFCM REVIEW COMMENTS</td></tr><tr><td></td><td>12/08/06</td><td>CONSTRUCTION DOCUMENTS</td></tr><tr><td></td><td>08/28/06</td><td>95% DESIGN SUBMITTAL</td></tr><tr><td></td><td>07/17/06</td><td>60% DESIGN SUBMITTAL</td></tr></tbody></table>			MARK	DATE	DESCRIPTION	▲	01/15/07	DFCM REVIEW COMMENTS		12/08/06	CONSTRUCTION DOCUMENTS		08/28/06	95% DESIGN SUBMITTAL		07/17/06	60% DESIGN SUBMITTAL
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<div>KEY PLAN</div>																	
<div>SHEET TITLE</div> <div style="text-align: center; margin-top: 10px;"><h2>FIRST FLOOR AND MEZZANINE REFLECTED CEILING PLANS</h2><div style="margin-top: 20px; font-size: 2em; font-weight: bold;">AE121</div></div>																	



**CLIENT**

CLEARFIELD  
MAINTENANCE  
FACILITY

STATION #1424  
2001 EAST 700 SOUTH  
CLEARFIELD, UTAH 84015

DESIGNER

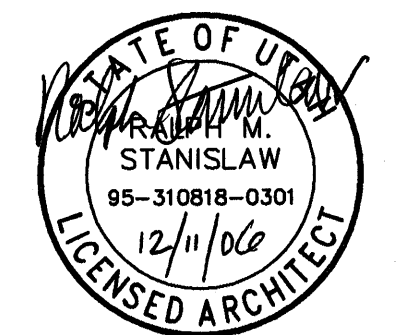
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GROUP

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ISSUE

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MARK	DATE	DESCRIPTION

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DFCM PROJECT NO:	060349000
ARCHIPLEX PROJECT NO:	0609.010
DRAWN BY:	K. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	1/8"=1'-0"
DATE:	DECEMBER 8, 2006

## KEY PLAN

SHEET TITLE

## ROOF PLAN AND ROOF DETAILS

AE141





CLIENT

CLEARFIELD  
MAINTENANCE  
FACILITY

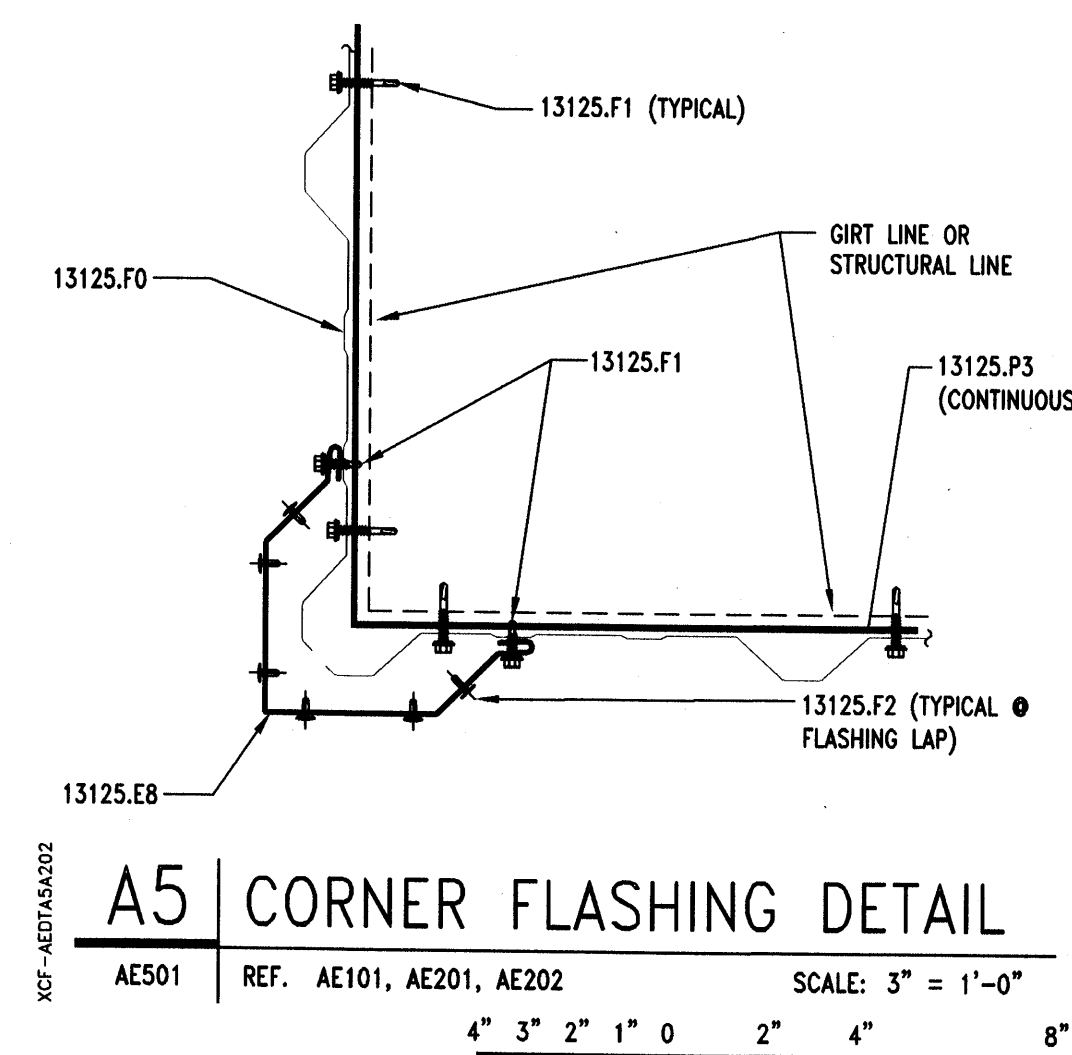
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2001 EAST 700 SOUTH  
CLEARFIELD, UTAH 84015

DESIGNER

**ARCHI PLEX**  
GROUP

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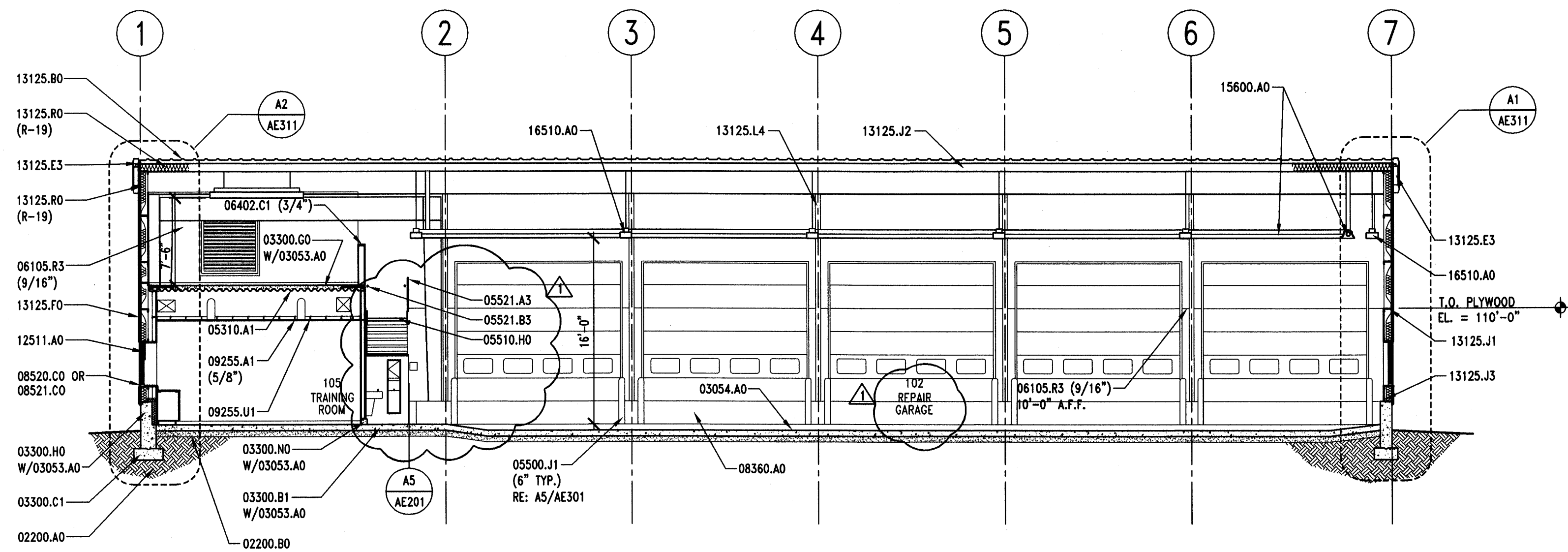
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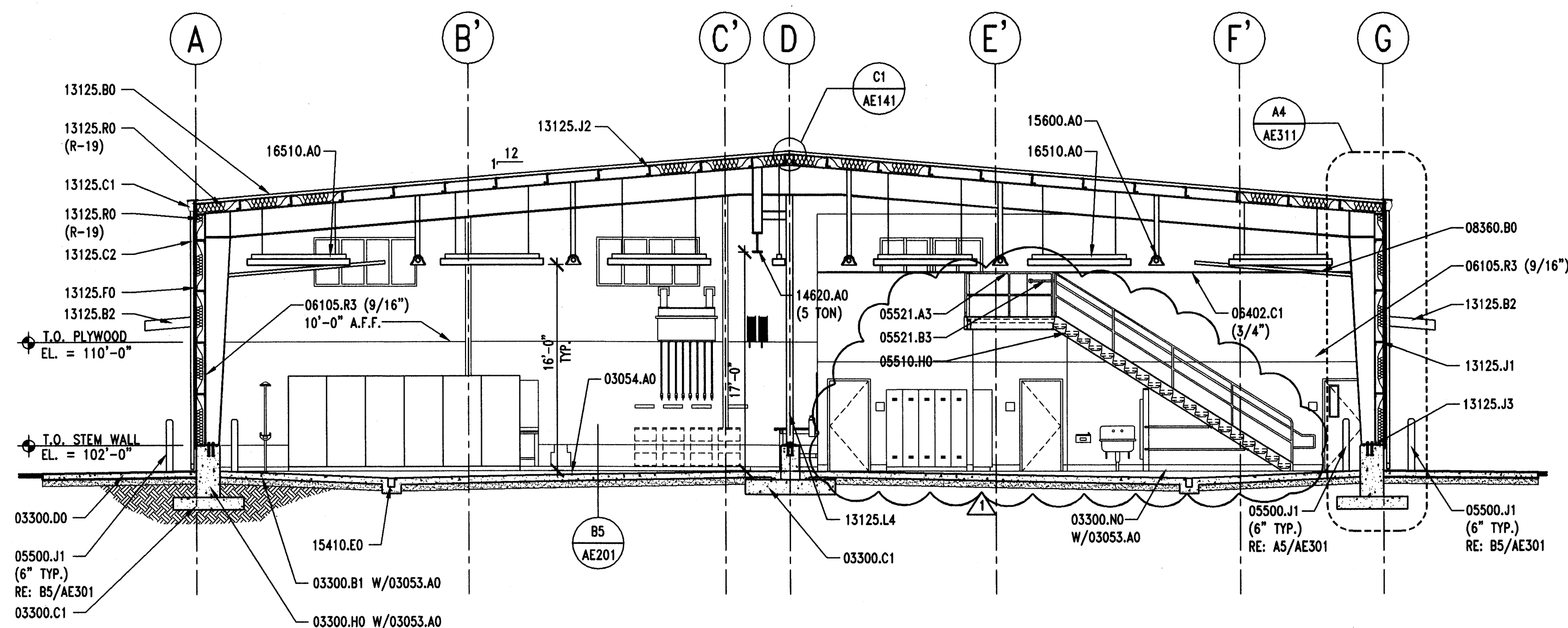
- GENERAL NOTES
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  2. DO NOT SCALE DRAWINGS.
  3. SEE SHEET AE02 FOR WINDOW TYPES AND DETAILS.
  4. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
  5. PROVIDE 03053.A0 AT ALL CONCRETE CURBS, PIERS, SLABS, STEM WALL ETC. U.N.O.
  6. PROVIDE 03054.A0 OVER ENTIRE FLOOR SLAB IN ROOMS 101, 102, 103 AND CONCRETE MEZZANINE.
  7. PAINT ALL EQUIPMENT MOUNTING BARS TO MATCH PLYWOOD COLOR.

- BUILDING SECTION KEYNOTES
- 02200.A0 COMPACTED FILL  
02200.B0 GRAVEL BASE  
02511.A0 ZERO VOIDS ASPHALT PAVING (THICKNESS)
- 03053.A0 CONCRETE WATER PROOFING ADMIXTURE  
03054.A0 OLIPHOBIC TOPICAL SEALER  
03300.A1 CONCRETE SLAB-ON-GRADE - RE: STRUCTURAL  
03300.B1 CONCRETE SLAB - RE:STRUCTURAL  
03300.C1 FOOTING-RE: STRUCTURAL  
03300.D0 CONCRETE PAD  
03300.G0 CONCRETE OVER METAL DECK - RE:STRUCTURAL  
03300.H0 FOUNDATION WALL, RE: STRUCTURAL  
03300.K1 CONCRETE PIPE BASE  
03300.L1 30# FELL  
03300.N0 CONCRETE CURB
- 05310.A1 METAL DECK - RE: STRUCTURAL  
05500.J1 PIPE BOLLARD (DIAMETER) GALV. AND PAINTED  
05510.H0 CONC. FILLED METAL PAN STAIR - GALVANIZED  
05521.A3 1 1/2" O.D. PIPE GUARDRAIL - GALVANIZED  
05521.B3 1 1/2" O.D. HANDRAIL - GALVANIZED
- 06105.R3 PROTECTION BOARD (THICKNESS)  
06402.C1 PAINT GRADE WOOD CAP (THICK.)
- 08360.A0 OVERHEAD SECTIONAL DOOR  
08360.B0 3" HEAVY DUTY OVERHEAD SECTIONAL DOOR TRACK  
08520.C0 ALUM. WINDOW W/GLIDING GLASS PANEL  
08521.C0 VINYL WINDOW W/GLIDING GLASS PANEL
- 09255.A1 GYPSUM BOARD (THICKNESS)  
09255.U1 SUSPENDED CEILING SYSTEM
- 12511.A0 HORIZONTAL LOUVER BLINDS
- 13125.B0 STANDING SEAM METAL ROOF  
13125.B2 STANDING SEAM METAL CANOPY  
13125.C1 METAL RAIN GUTTER  
13125.C2 DOWNSPOUT  
13125.E3 RAKE TRIM  
13125.F0 METAL WALL PANEL  
13125.J1 STRUCTURAL GIRT - PAINTED  
13125.J2 ROOF PURLIN - PAINTED  
13125.J3 STRUCTURAL GIRT  
13125.L4 STEEL COLUMN - PRIMED & PAINTED  
13125.R0 INSULATION & VAPOR BARRIER (R-VALUE)
- 14620.A0 TROLLEY HOIST (SIZE) - RE: STRUCTURAL
- 15410.E0 TRENCH DRAIN  
15600.A0 NATURAL GAS RADIANT HEATING SYSTEM
- 16510.A0 INTERIOR LIGHTS



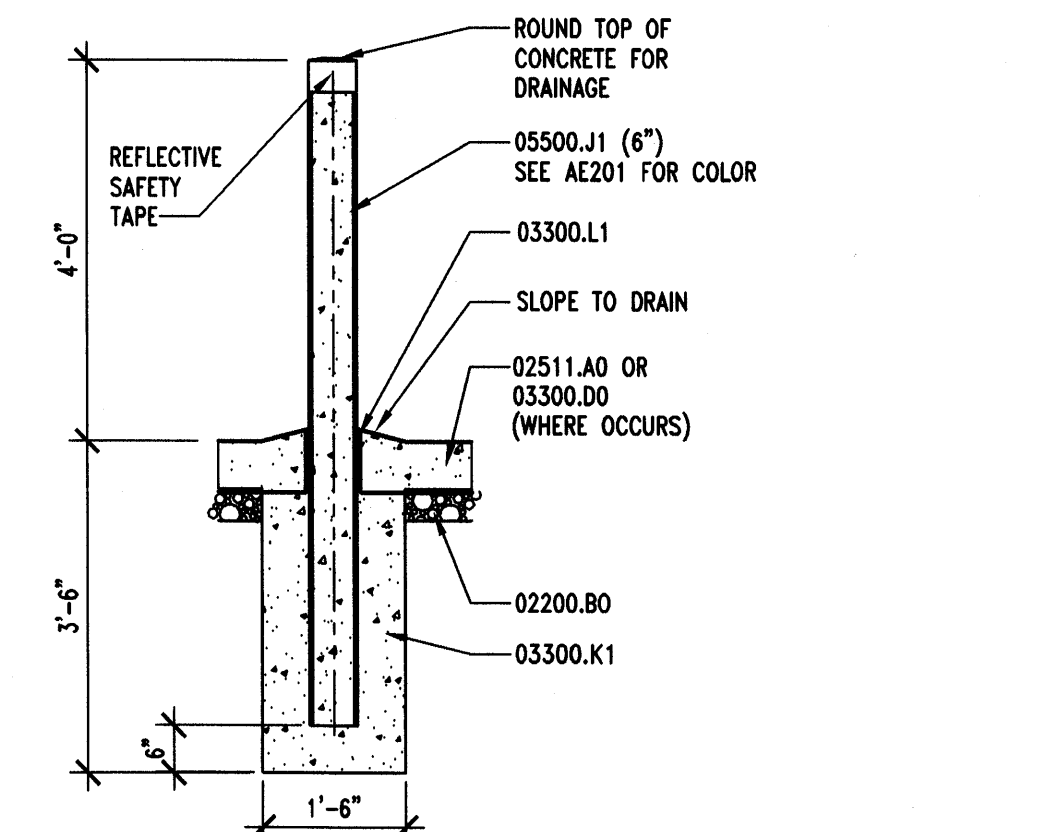
C1 BUILDING SECTION

AE301 REF. AE101 SCALE: 1/8" = 1'-0"



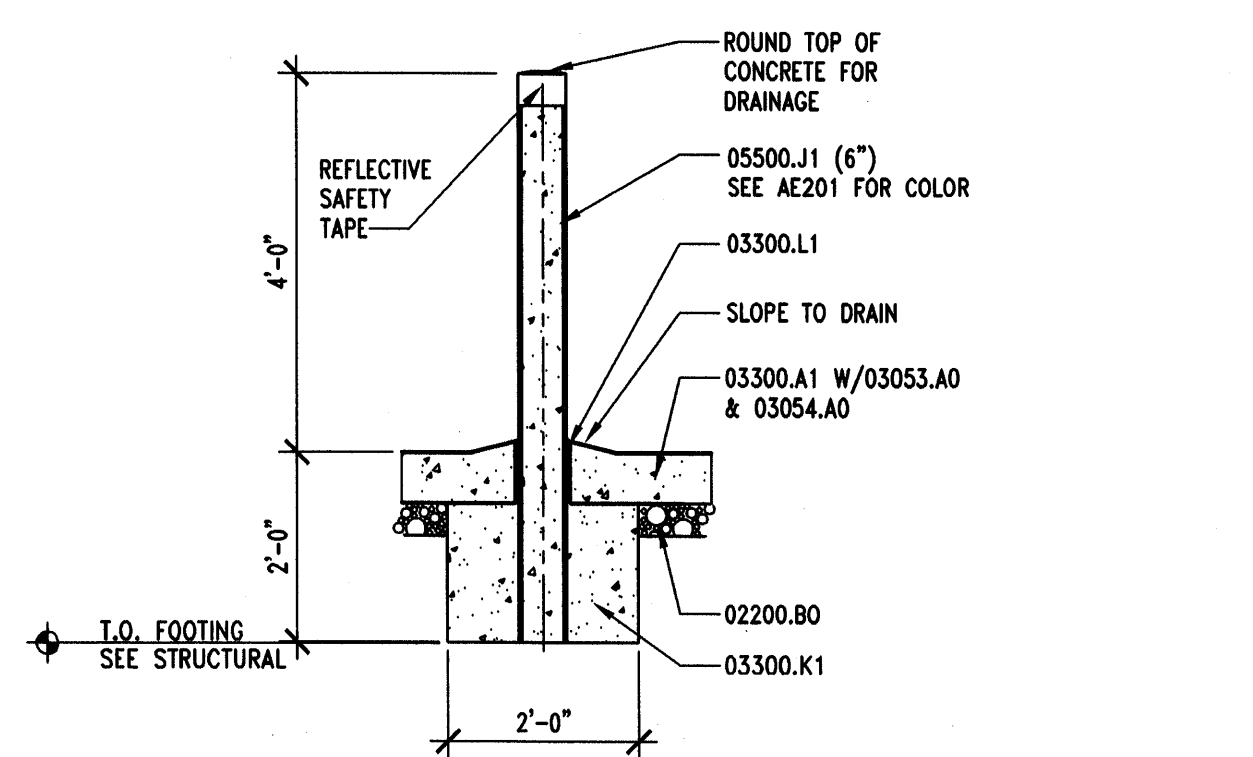
A1 BUILDING SECTION

AE301 REF. AE101 SCALE: 1/8" = 1'-0"



B5 EXT. PIPE BOLLARD DTL.

AE301 REF. AE101 & AE301 SCALE: 1/2" = 1'-0"



A5 INT. PIPE BOLLARD DTL.

AE301 REF. AE101 & AE301 SCALE: 1/2" = 1'-0"

CLIENT

CLEARFIELD  
MAINTENANCE  
FACILITY  
STATION #1424  
2001 EAST 700 SOUTH  
CLEARFIELD, UTAH 84015

DESIGNER

ARCHIPLEX  
GROUP

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KEY PLAN

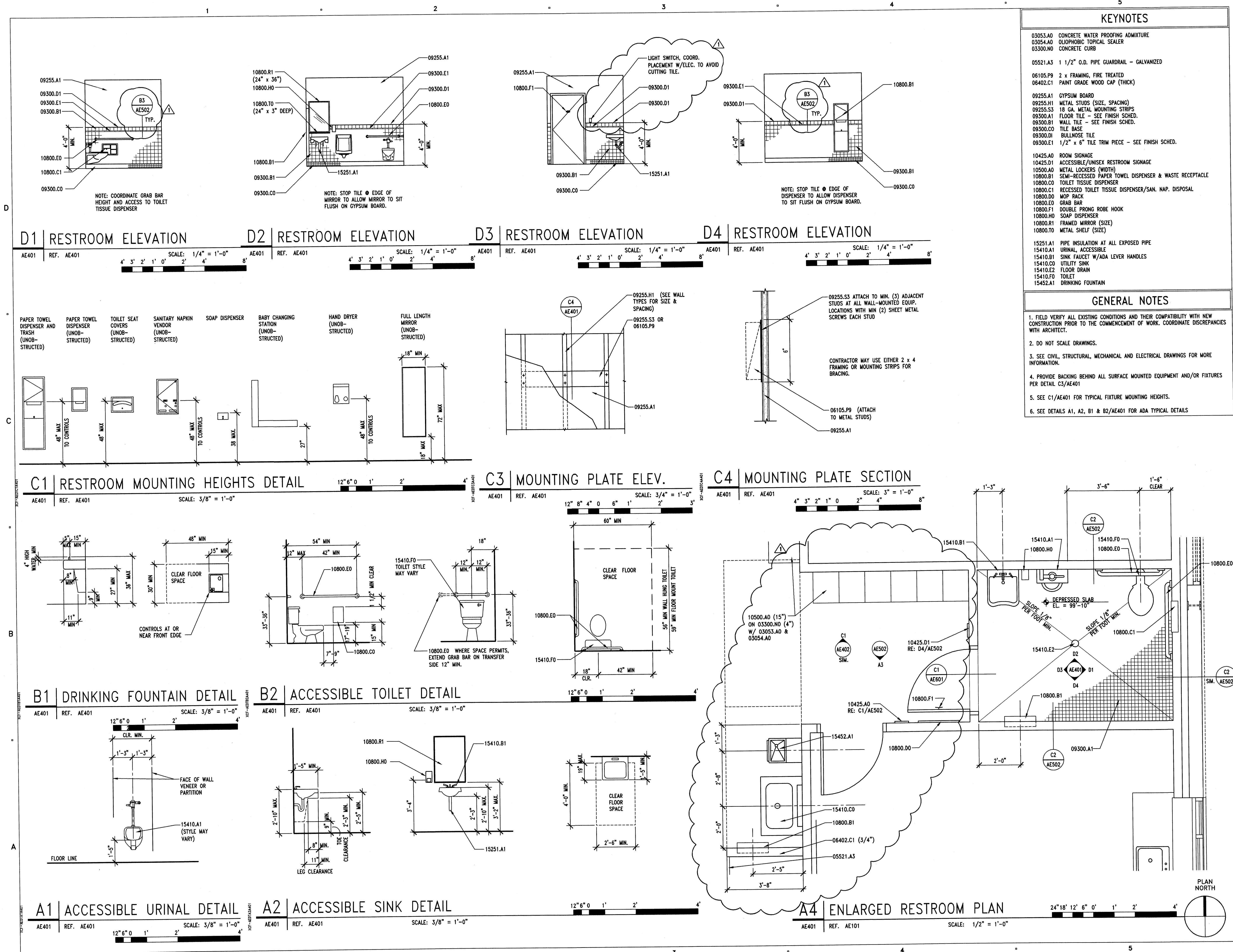
SHEET TITLE

BUILDING SECTIONS  
AND DETAILS

AE301







KEYNOTES	
03053.A0	CONCRETE WATER PROOFING ADMIXTURE
03054.A0	OLIOPHOBIC TOPICAL SEALER
03300.N0	CONCRETE CURB
05521.A3	1 1/2" O.D. PIPE GUARDRAIL - GALVANIZED
06105.P9	2 x FRAMING, FIRE TREATED
06402.C1	PAINT GRADE WOOD CAP (THICK)
09255.A1	GYPSUM BOARD
09255.H1	METAL STUDS (SIZE, SPACING)
09255.S3	18 GA. METAL MOUNTING STRIPS
09300.A1	FLOOR TILE - SEE FINISH SCHED.
09300.B1	WALL TILE - SEE FINISH SCHED.
09300.C0	TILE BASE
09300.D1	BULLNOSE TILE
09300.E1	1/2" x 6" TILE TRIM PIECE - SEE FINISH SCHED.
10425.A0	ROOM SIGNAGE
10425.D1	ACCESSIBLE/UNISEX RESTROOM SIGNAGE
10500.A0	METAL LOCKERS (WIDTH)
10800.B1	SEMI-RECESSED PAPER TOWEL DISPENSER & WASTE RECEPTACLE
10800.C0	TOILET TISSUE DISPENSER
10800.C1	RECESSED TOILET TISSUE DISPENSER/SAN. NAP. DISPOSAL
10800.D0	MOP RACK
10800.E0	GRAB BAR
10800.F1	DOUBLE PRONG ROBE HOOK
10800.H0	SOAP DISPENSER
10800.R1	FRAMED MIRROR (SIZE)
10800.T0	METAL SHELF (SIZE)
15251.A1	PIPE INSULATION AT ALL EXPOSED PIPE
15410.A1	URINAL, ACCESSIBLE
15410.B1	SINK FAUCET W/ADA LEVER HANDLES
15410.C0	UTILITY SINK
15410.E2	FLOOR DRAIN
15410.F0	TOILET
15452.A1	DRINKING FOUNTAIN

GENERAL NOTES	
1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.	
2. DO NOT SCALE DRAWINGS.	
3. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.	
4. PROVIDE BACKING BEHIND ALL SURFACE MOUNTED EQUIPMENT AND/OR FIXTURES PER DETAIL C3/AE401	
5. SEE C1/AE401 FOR TYPICAL FIXTURE MOUNTING HEIGHTS.	
6. SEE DETAILS A1, A2, B1 & B2/AE401 FOR ADA TYPICAL DETAILS	

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ISSUE

01/15/07	DFCM REVIEW COMMENTS	
12/08/06	CONSTRUCTION DOCUMENTS	
08/28/06	95% DESIGN SUBMITTAL	
07/17/06	60% DESIGN SUBMITTAL	

MARK	DATE	DESCRIPTION

DFCM CONTRACT NO:

067477

DFCM PROJECT NO:

06034900

ARCHIPLEX PROJECT NO:

0609.01

DRAWN BY:

K. PHILLIPS

CHECKED BY:

R. STANISLAW

SCALE:

AS SHOWN

DATE:

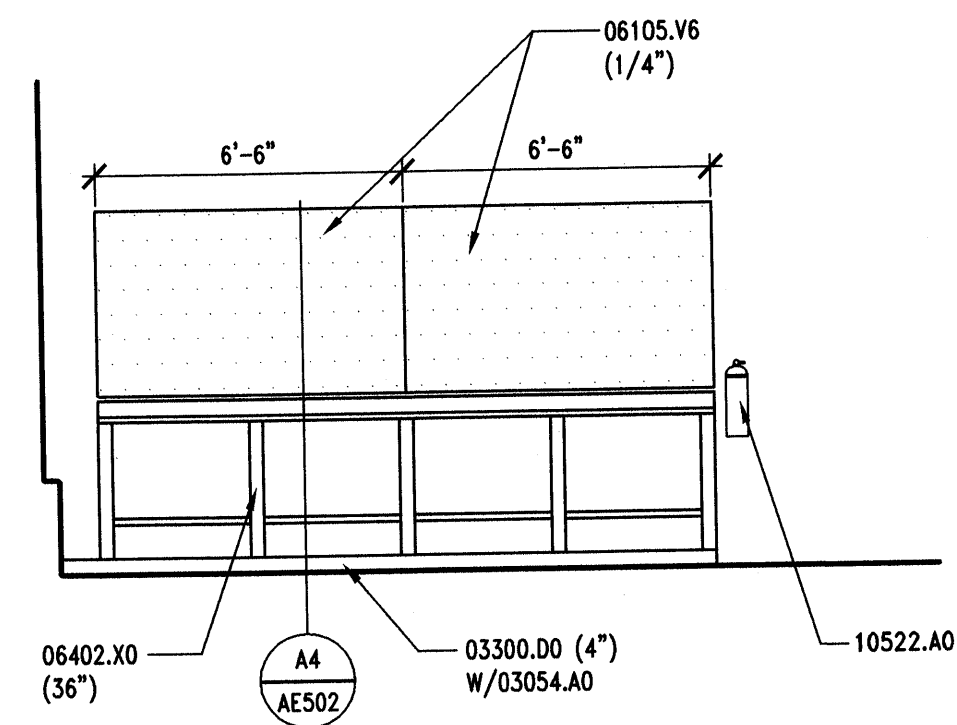
DECEMBER 8, 2006

KEY PLAN

SHEET TITLE

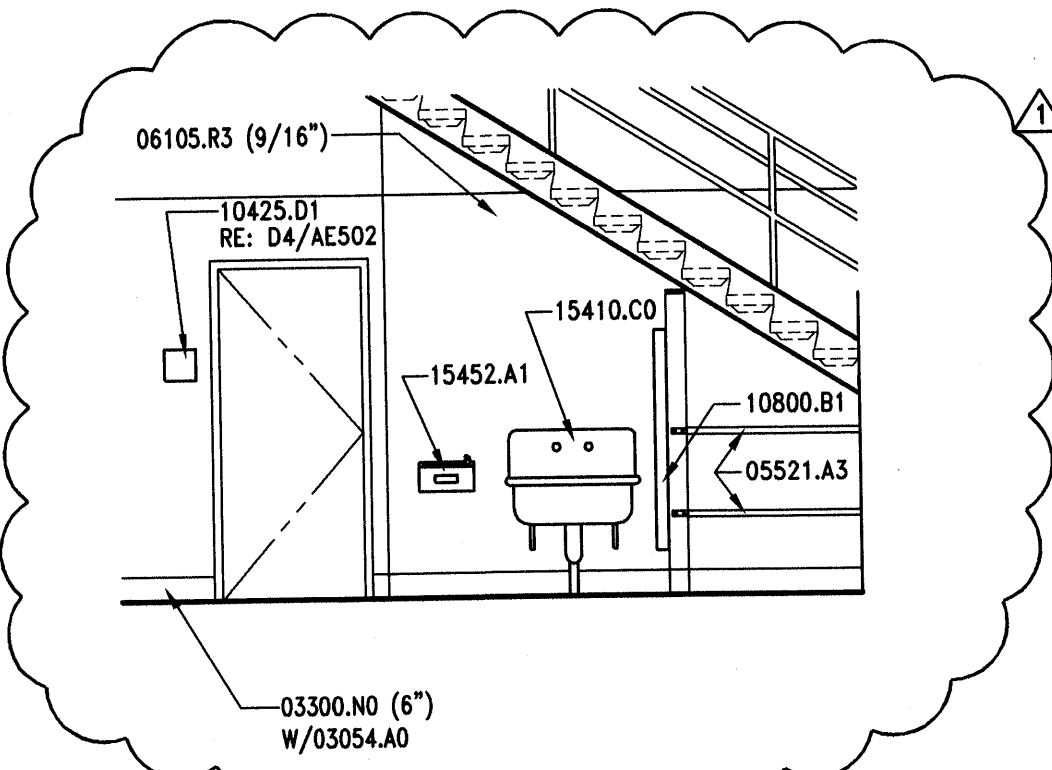
ENLARGED RESTROOM  
FLOOR PLAN,  
INTERIOR ELEVATIONS  
AND DETAILS

AE401



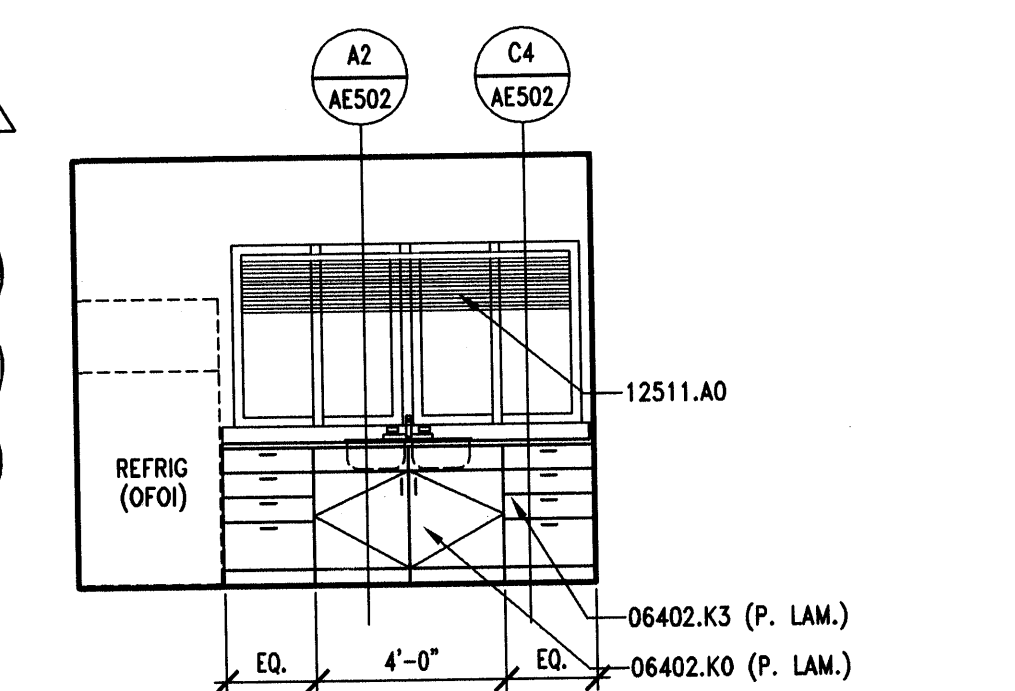
D1 INTERIOR ELEVATION

AE402 REF. AE402 SCALE: 1/4" = 1'-0" 4' 3' 2' 1' 0' 2' 4' 8'



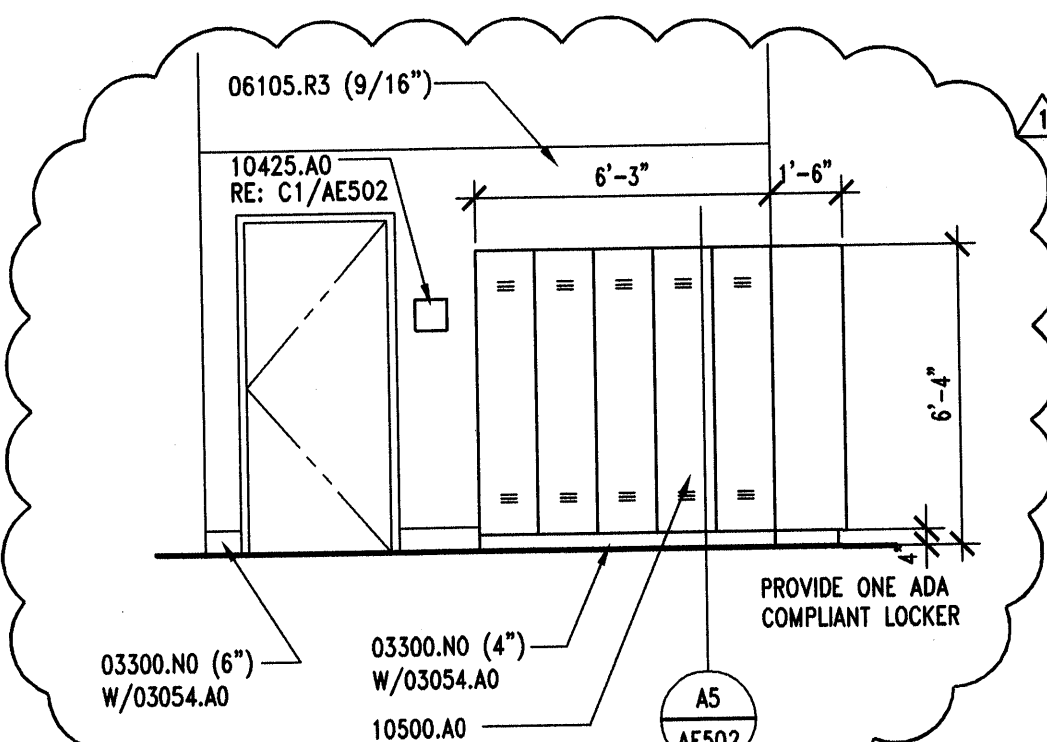
D2 INTERIOR ELEVATION

AE402 REF. AE101 SCALE: 1/4" = 1'-0" 4' 3' 2' 1' 0' 2' 4' 8'



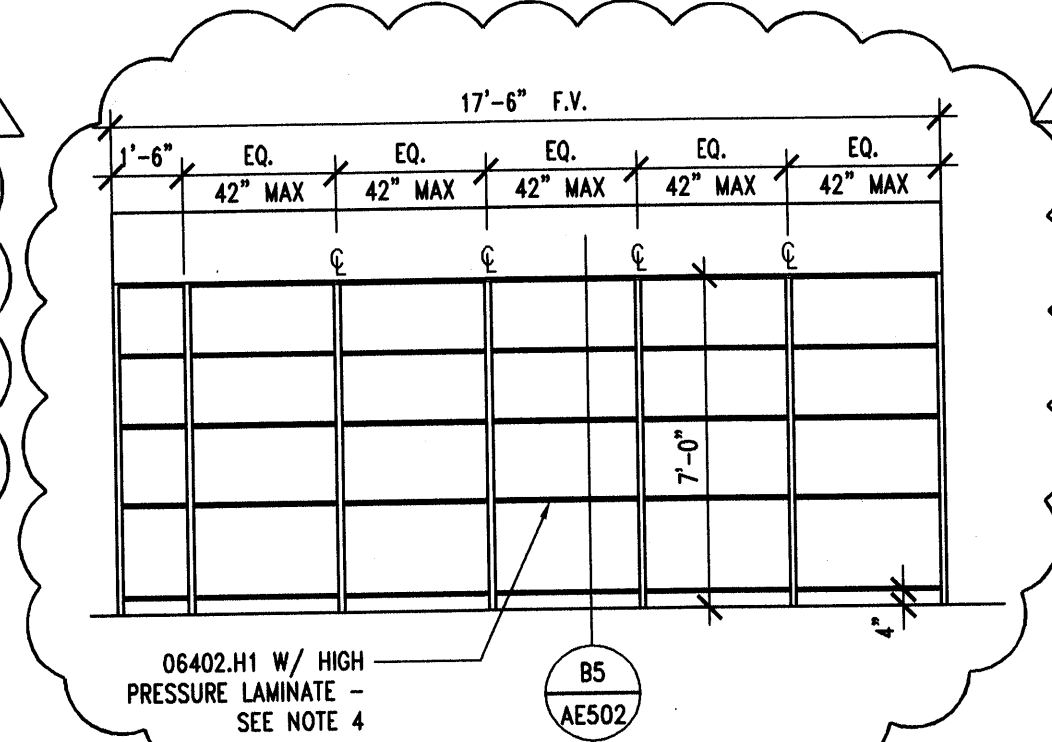
D3 INTERIOR ELEVATION

AE402 REF. AE101 SCALE: 1/4" = 1'-0" 4' 3' 2' 1' 0' 2' 4' 8'



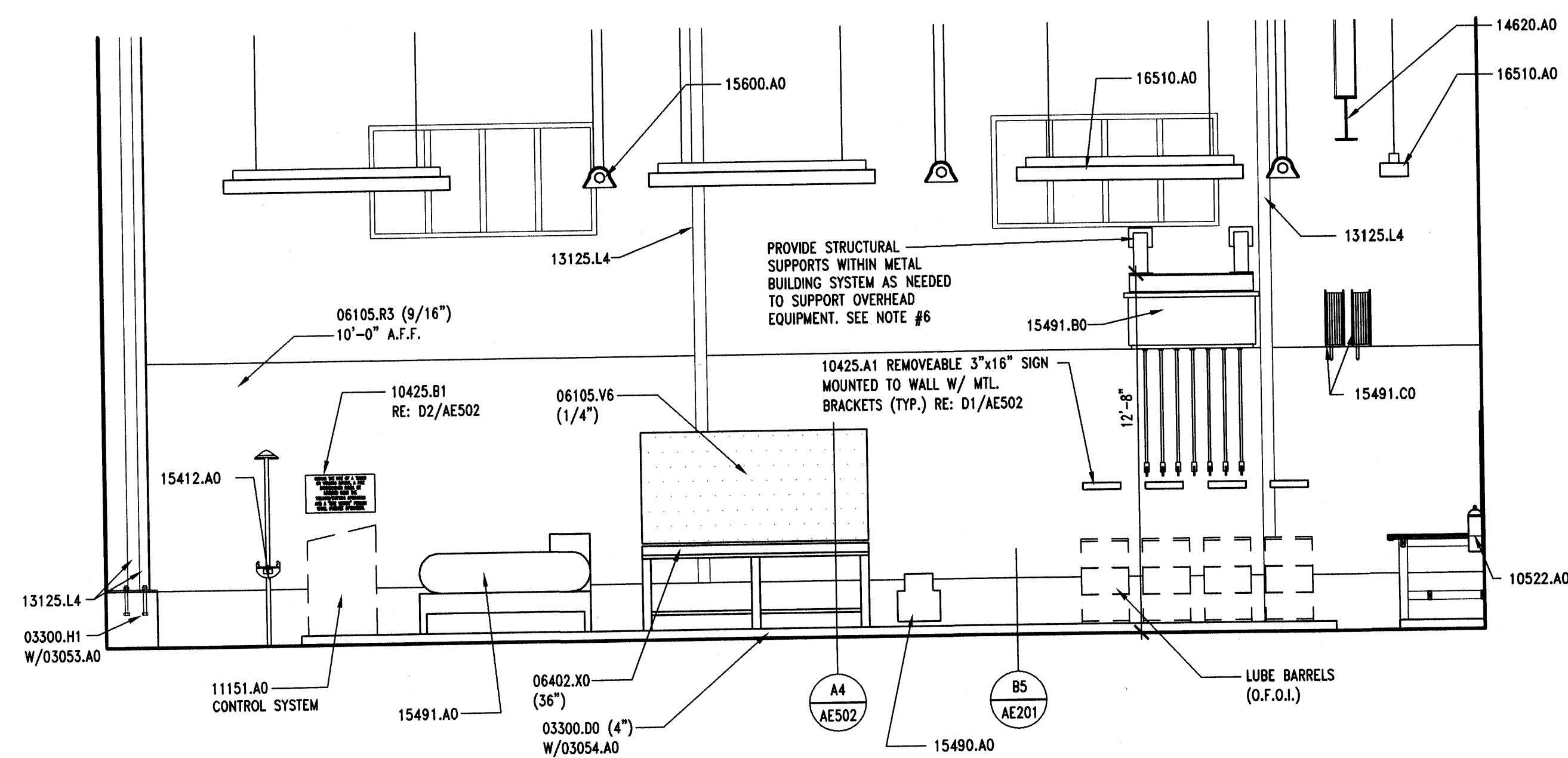
C1 LOCKER ELEVATION

AE402 REF. AE101 SCALE: 1/4" = 1'-0" 4' 3' 2' 1' 0' 2' 4' 8'



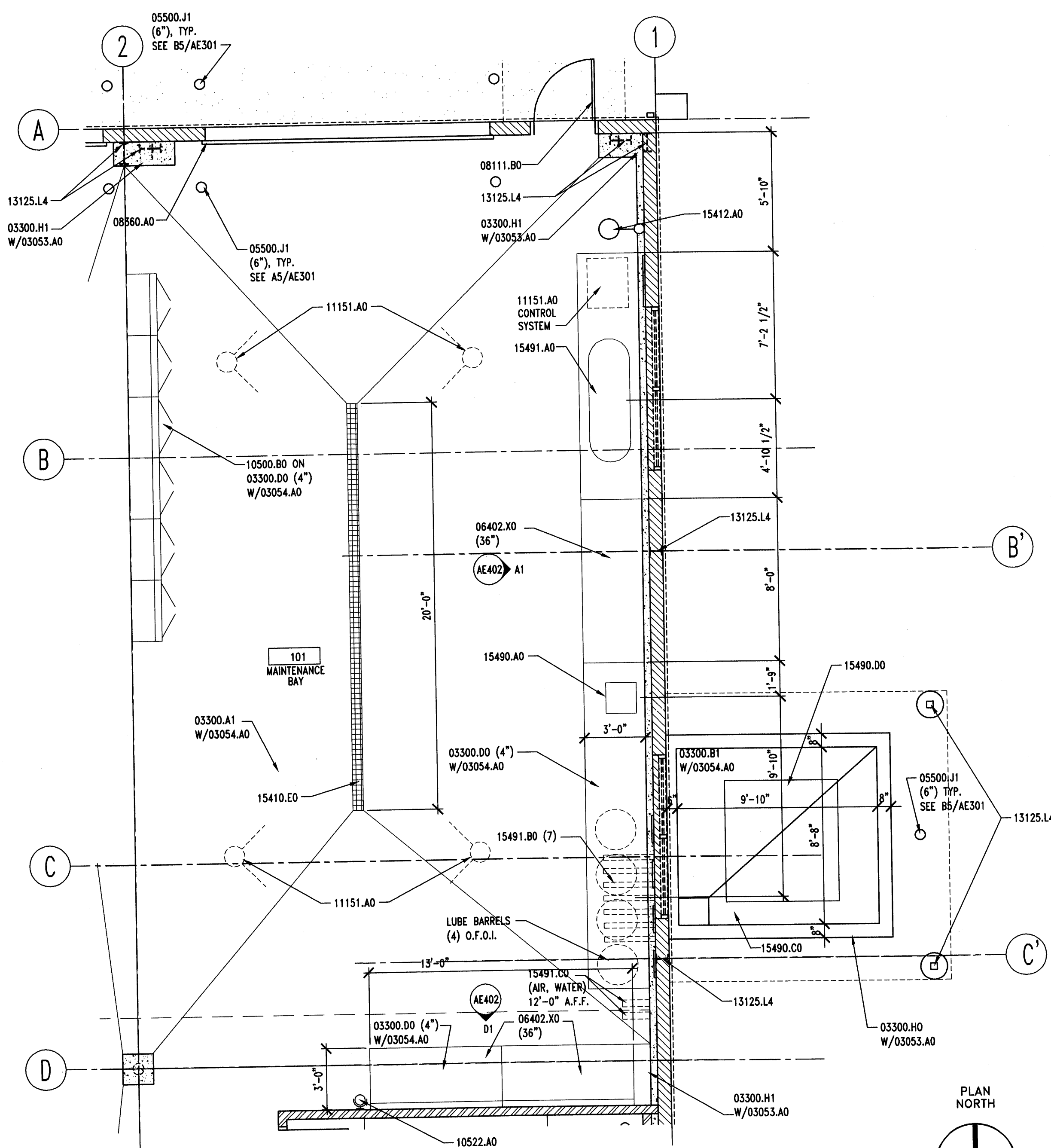
C2 TYP. SHELVING ELEVATION

AE402 REF. AE101 SCALE: 1/4" = 1'-0" 4' 3' 2' 1' 0' 2' 4' 8'



A1 INTERIOR ELEVATION

AE402 REF. AE402 SCALE: 1/4" = 1'-0" 4' 3' 2' 1' 0' 2' 4' 8'



A3 ENLARGED MAINTENANCE BAY

AE402 REF. AE101 SCALE: 1/4" = 1'-0" 4' 3' 2' 1' 0' 2' 4' 8'

KEYNOTES

- 03053.A0 CONCRETE WATER PROOFING ADMIXTURE
- 03054.A0 OLUPHOBIC TOPICAL SEALER
- 03300.A1 CONCRETE SLAB-ON-GRADE - RE: STRUCTURAL
- 03300.B1 CONCRETE SLAB - RE: STRUCTURAL
- 03300.D0 CONCRETE PAD (SIZE)
- 03300.H0 FOUNDATION WALL - RE: STRUCTURAL
- 03300.H1 CONCRETE PIER - RE: STRUCTURAL
- 03300.N0 CONCRETE CURB (HEIGHT)
- 05500.J1 PIPE BOLLARD (DIAMETER) - GALV. & PAINTED
- 05521.A3 1 1/2" O.D. PIPE GUARDRAIL - GALVANIZED
- 06105.R3 PROTECTION BOARD (THICKNESS)
- 06105.V6 PEGBOARD (THICKNESS)
- 06402.H1 ADJUSTABLE SHELVES (FINISH)
- 06402.K3 BASE UNIT (FINISH)
- 06402.K3 BASE UNIT WITH DRAWERS (FINISH)
- 06402.X0 WORKBENCH (DEPTH)
- 08111.B0 HOLLOW METAL DOOR
- 08360.A0 OVERHEAD SECTIONAL DOOR
- 10425.A0 ROOM SIGNAGE
- 10425.A1 OIL SIGNAGE
- 10425.B1 WELDING SIGNAGE
- 10425.D1 ACCESSIBLE/UNISEX RESTROOM SIGNAGE
- 10500.A0 METAL LOCKERS (WIDTH)
- 10500.B0 METAL STORAGE CABINETS
- 10522.A0 FIRE EXTINGUISHER
- 10800.B1 SEMI-RECESSED PAPER TOWEL DISPENSER & WASTE RECEPTACLE
- 11151.A0 MOBILE LIFT - NIC - OWNER FURNISHED
- 12511.A0 HORIZONTAL LOUVER BLINDS
- 13125.L4 STEEL COLUMN - PRIMED & PAINTED
- 14620.A0 TROLLEY HOIST (SIZE) - RE: STRUCTURAL

KEYNOTES - CONT.

- 15410.C0 UTILITY SINK
- 15410.E0 TRENCH DRAIN
- 15412.A0 EMERGENCY SHOWER & EYE WASH
- 15452.A1 DRINKING FOUNTAIN
- 15490.A0 WASTE OIL PUMP
- 15490.C0 WASTE OIL PIT
- 15490.D0 600 GAL. WASTE OIL TANK - O.F.C.I.
- 15491.A0 AIR COMPRESSOR
- 15491.B0 OVERHEAD LUBE REELS
- 15491.C0 OVERHEAD HOSE REELS
- 15600.A0 NATURAL GAS RADIANT HEATING SYSTEM
- 16510.A0 INTERIOR LIGHTS

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.
2. DO NOT SCALE DRAWINGS.
3. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
4. PROVIDE QUANTITY OF ADJUSTABLE SHELVING AS SHOWN IN ELEVATION.
5. SEE SHEET AE602 FOR PLASTIC LAMINATE COLORS.
6. PAINT ALL EQUIPMENT MOUNTING BARS TO MATCH PLYWOOD COLOR
7. PROVIDE 03053.A0 AT ALL CONCRETE CURBS, PIERS, SLABS, STEM WALL ETC. U.N.O.
8. PROVIDE 03054.A0 OVER ENTIRE FLOOR SLAB AT ROOMS 101, 102, 103 & CONCRETE MEZZANINE.

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08/28/06	95% DESIGN SUBMITTAL
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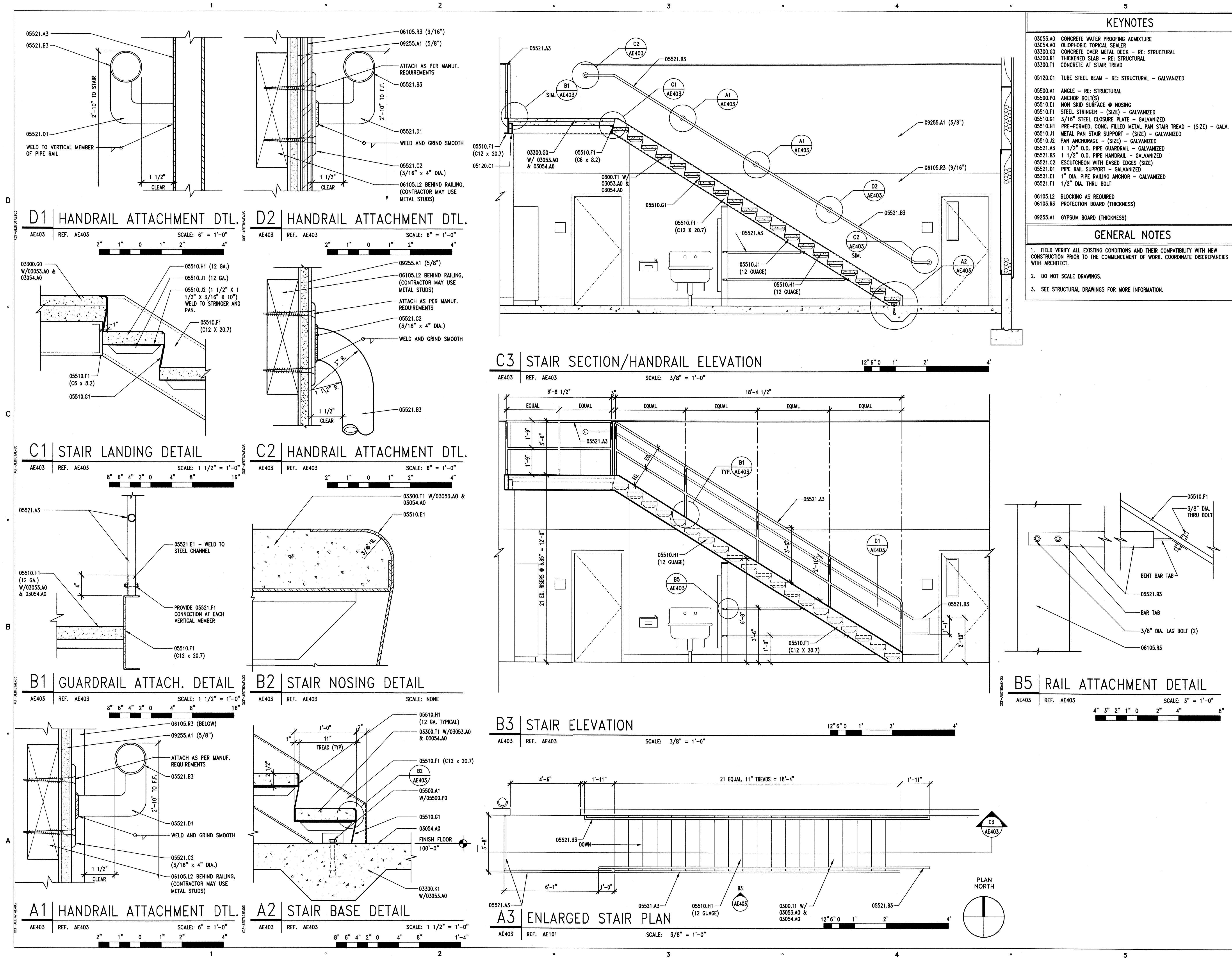
MARK	DATE	DESCRIPTION
DFCM CONTRACT NO:	067477	
DFCM PROJECT NO:	06034900	
ARCHIPLEX PROJECT NO:	0609.01	
DRAWN BY:	K. PHILLIPS	
CHECKED BY:	R. STANISLAW	
SCALE:	AS SHOWN	
DATE:	DECEMBER 8, 2006	
KEY PLAN		

SHEET TITLE

ENLARGED  
MAINTENANCE BAY  
AND INTERIOR  
ELEVATIONS

AE402





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FACILITY  
STATION #1424  
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CLEARFIELD, UTAH 84015

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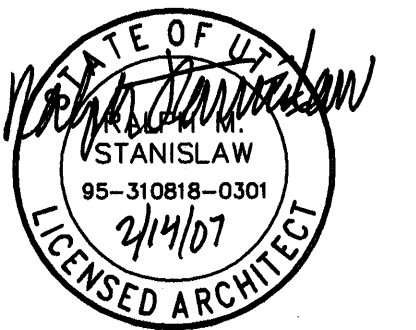
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MARK DATE DESCRIPTION

DFCM CONTRACT NO: 067477

DFCM PROJECT NO: 06034900

ARCHIPLEX PROJECT NO: 0609.01

DRAWN BY: K. PHILLIPS

CHECKED BY: R. STANISLAW

SCALE: AS SHOWN

DATE: DECEMBER 8, 2006

KEY PLAN

SHEET TITLE

STAIR PLAN,  
SECTION  
ELEVATION  
AND DETAILS

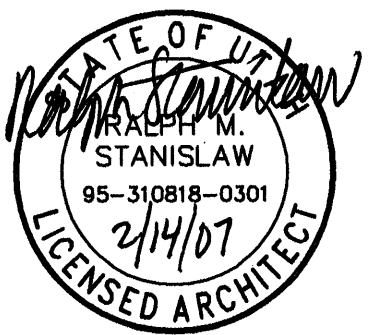
AE403

**CLEARFIELD  
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STATION #1424  
2001 EAST 700 SOUTH  
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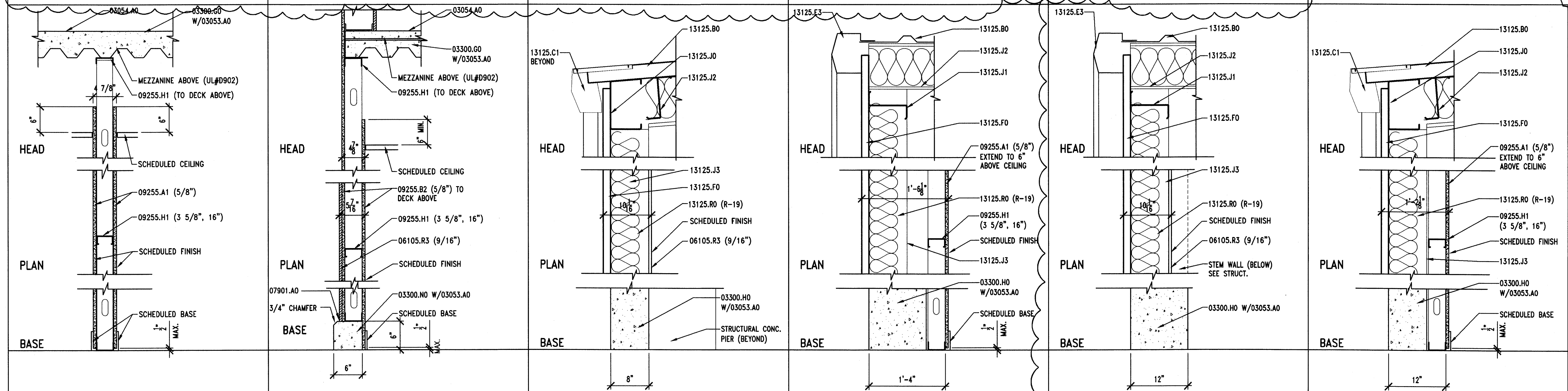
1	01/15/07	DFCM REVIEW COMMENTS
	12/08/06	CONSTRUCTION DOCUMENTS
	08/28/06	95% DESIGN SUBMITTAL
	07/17/06	60% DESIGN SUBMITTAL

DFCM CONTRACT NO:	067477
DFCM PROJECT NO:	06034900
ARCHIPLEX PROJECT NO:	0609.01
DRAWN BY:	K. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	AS SHOWN
DATE:	DECEMBER 8, 2006
KEY PLAN	

## SHEET TITLE

## WALL TYPES

AE501



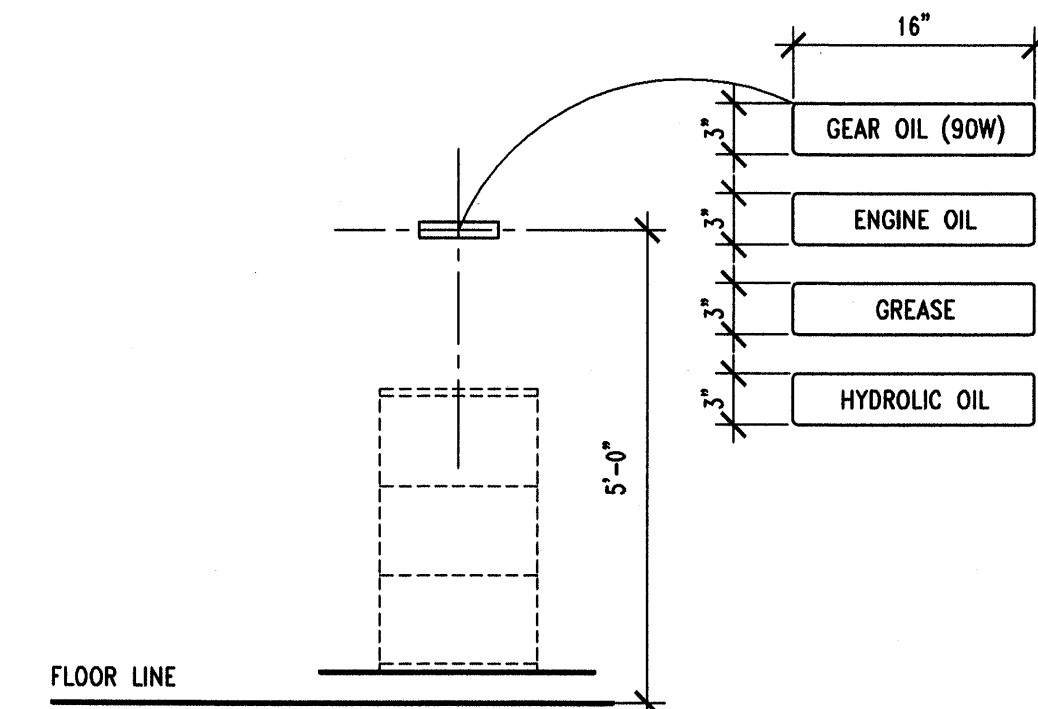
TYPE	OVERALL THICKNESS	STUD/ BLOCK SIZE	FIRE RATING	U.L. LISTING	S.T.C. RATING
L	AS NOTED	3 5/8"	N.R.	---	---

COMI

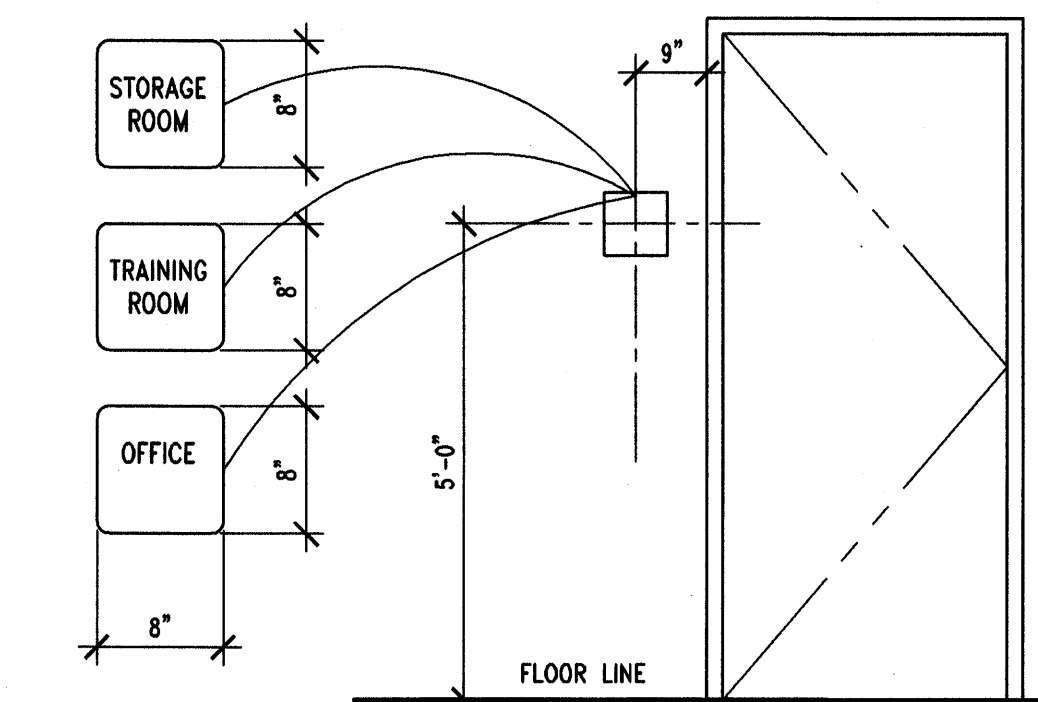
	TYPE	OVERALL THICKNESS	STUD/ BLOCK SIZE	FIRE RATING	U.L. LISTING	S.T.C. RATING
	E	AS NOTED	-	N.R.	---	---

COMM

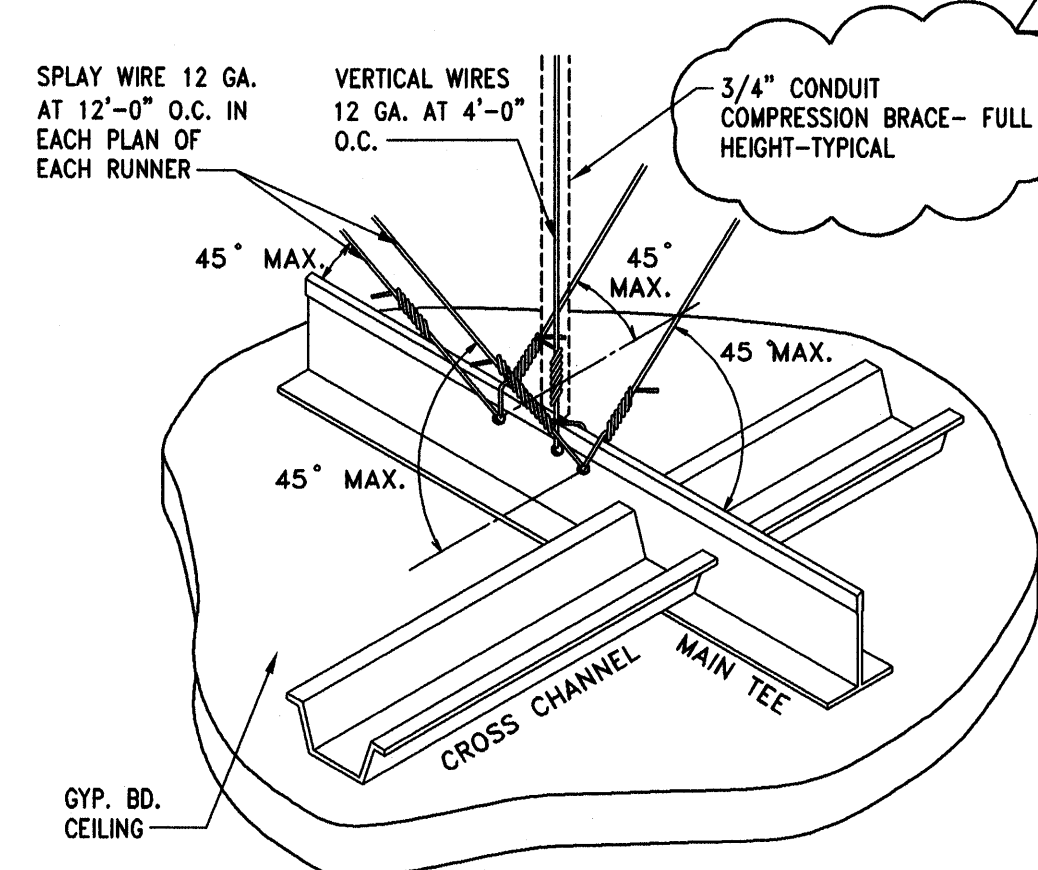




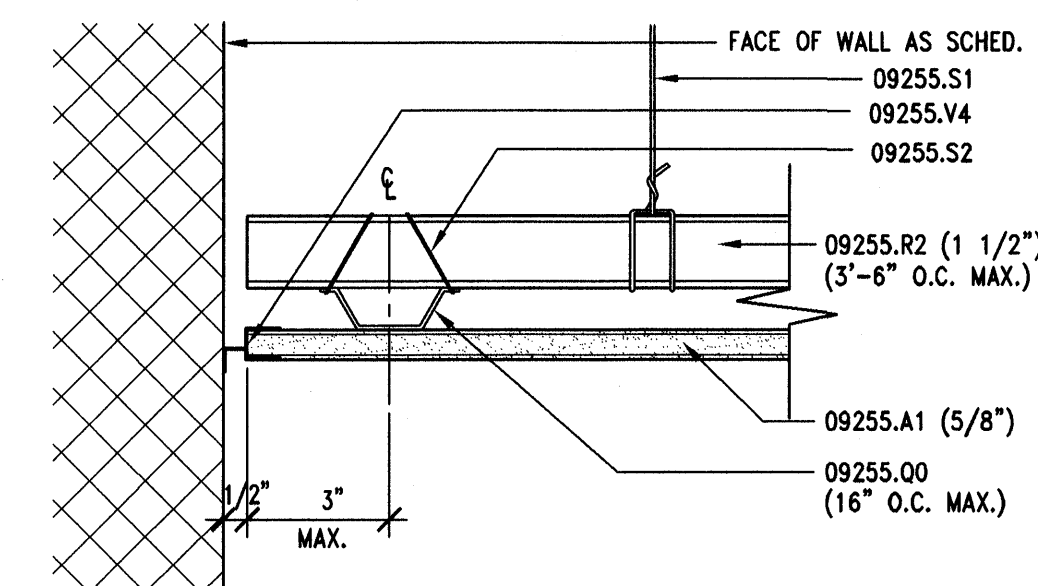
RE: SPECIFICATION - 10425 FOR MORE INFORMATION  
**D1 SIGNAGE "A"**  
 AE502 REF. AE101 SCALE: NO SCALE



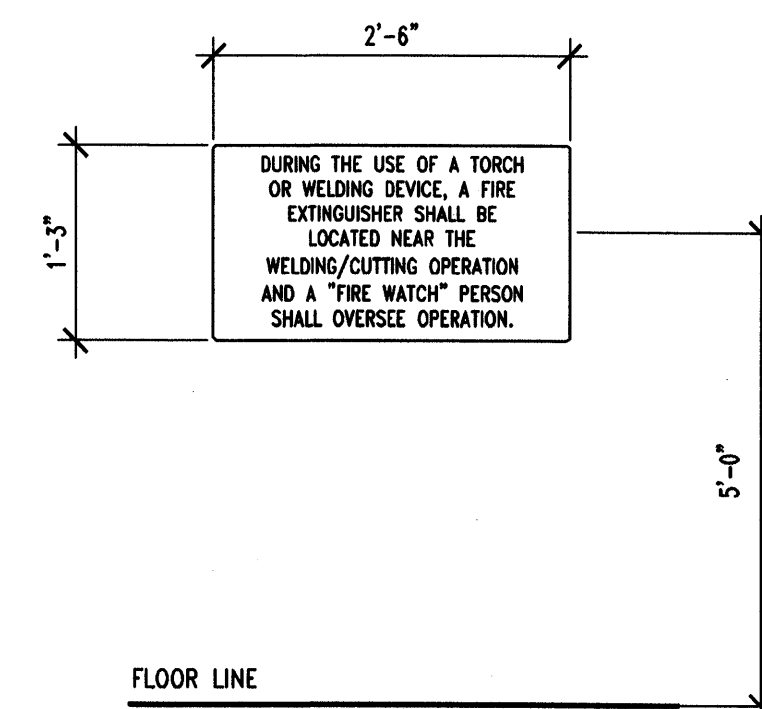
RE: SPECIFICATION - 10425 FOR MORE INFORMATION  
**C1 SIGNAGE "E"**  
 AE502 REF. AE101 SCALE: NO SCALE



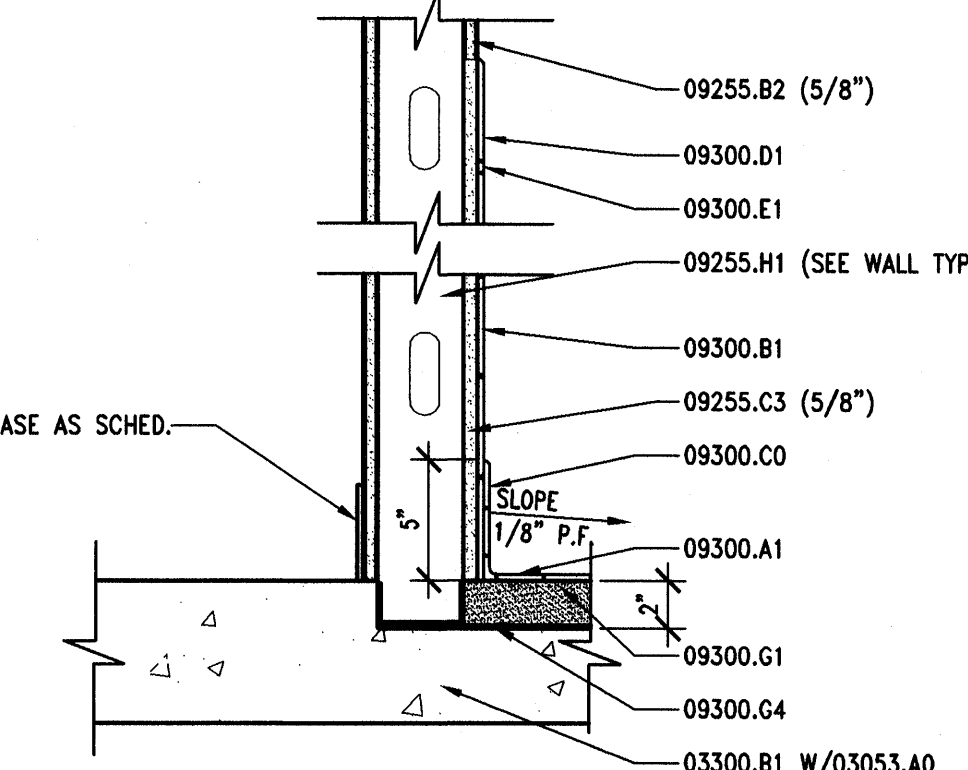
**B1 SEISMIC BRACING DETAIL**  
 AE502 REF. AE121 SCALE: NONE



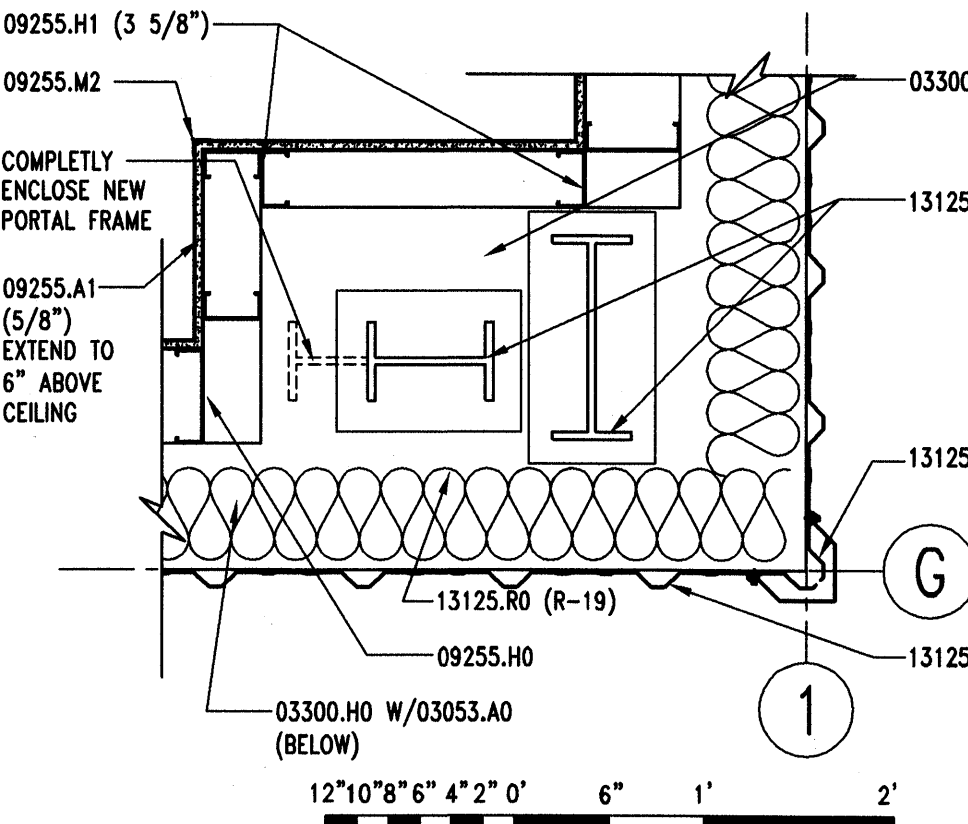
**A1 CEILING DETAIL**  
 AE502 REF. AE502 SCALE: 1/2" = 1'-0"  
 24" 18" 12" 6" 0 1' 2' 4"



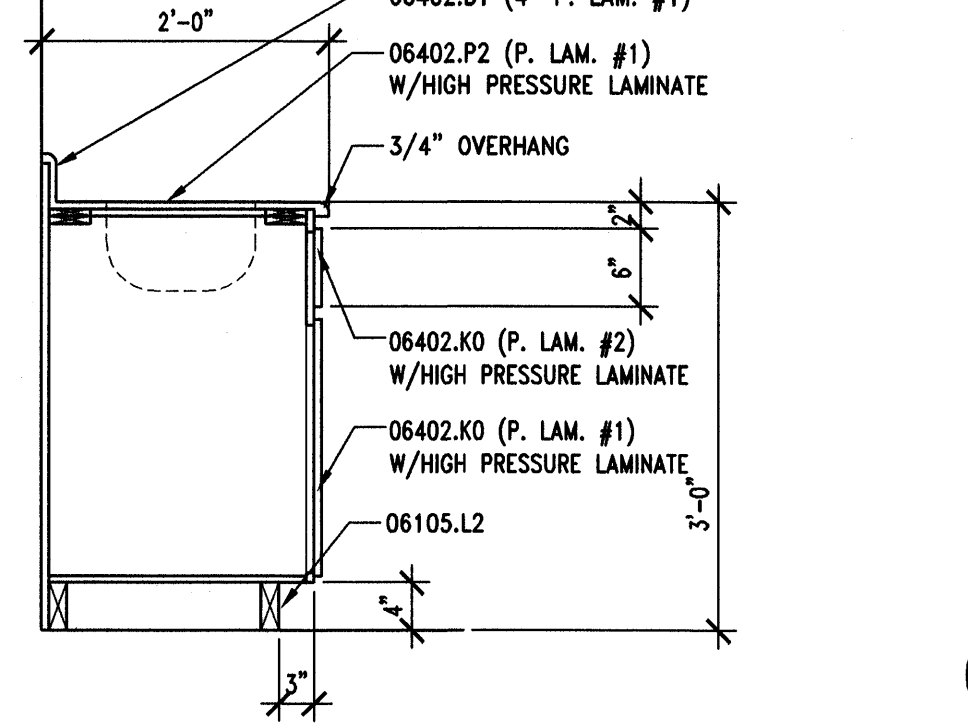
RE: SPECIFICATION - 10425 FOR MORE INFORMATION  
**D2 SIGNAGE "B"**  
 AE502 REF. AE101 SCALE: NO SCALE



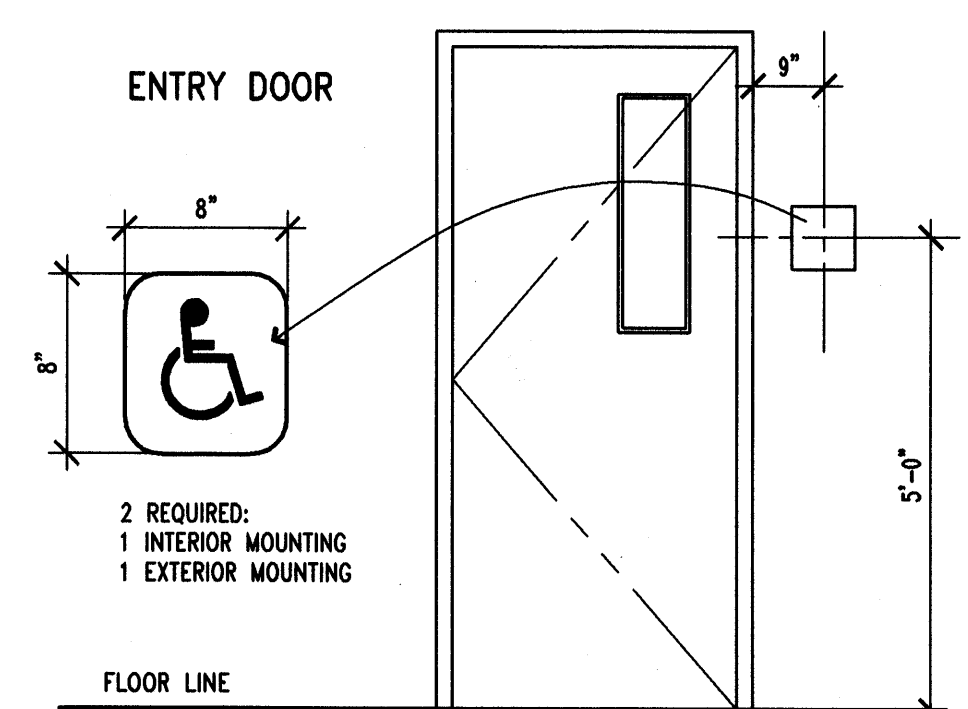
**C2 TILE/TILE BASE DETAIL**  
 AE502 REF. AE401 SCALE: 1 1/2" = 1'-0"  
 8" 6" 4" 2" 0 4" 8" 1'-4"



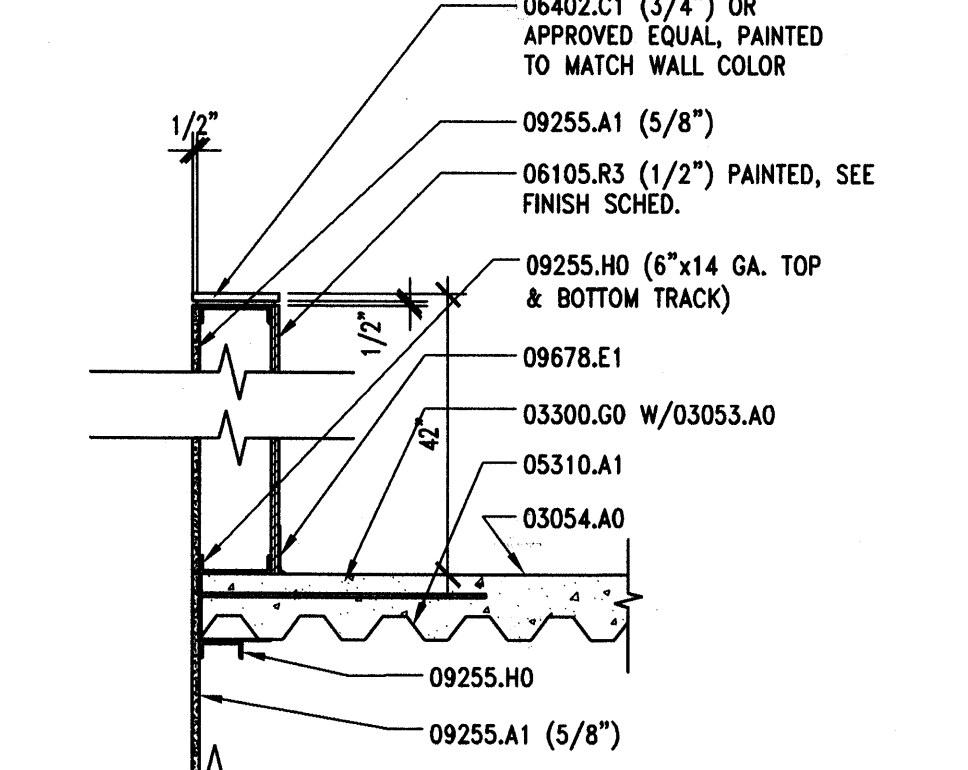
**B2 COLUMN DETAIL**  
 AE502 REF. AE101 SCALE: 1" = 1'-0"



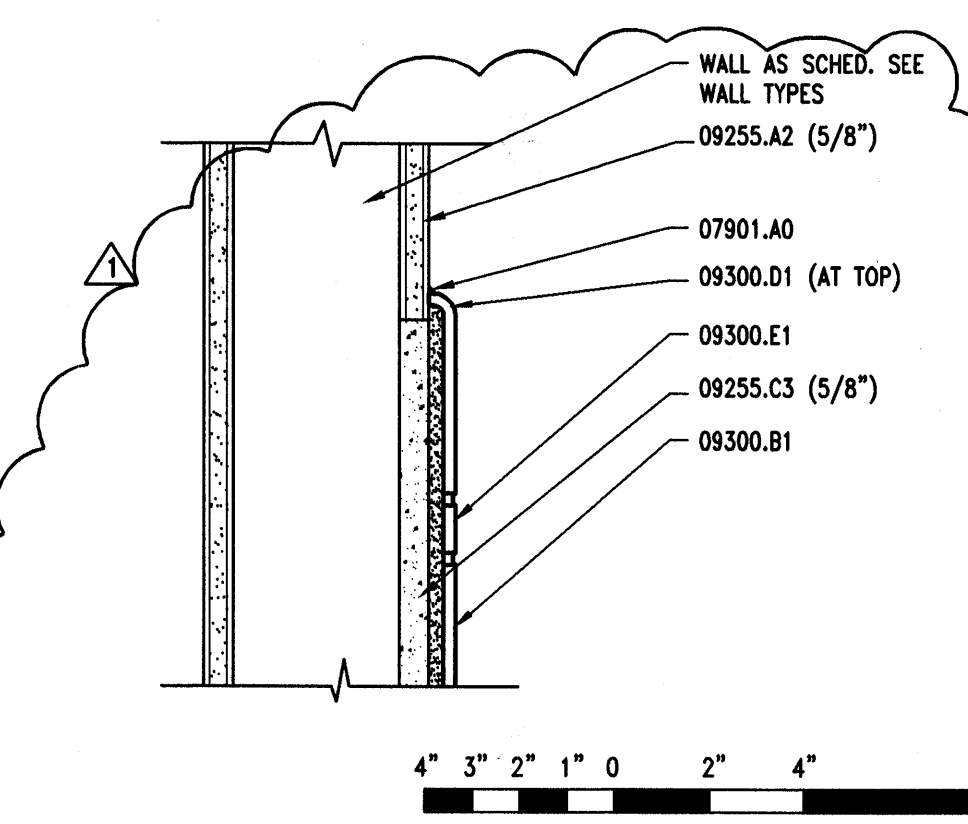
**A2 BASE CABINET SECTION**  
 AE502 REF. AE402 SCALE: 3/4" = 1'-0"  
 12" 8" 4" 0 6" 1' 2' 3"



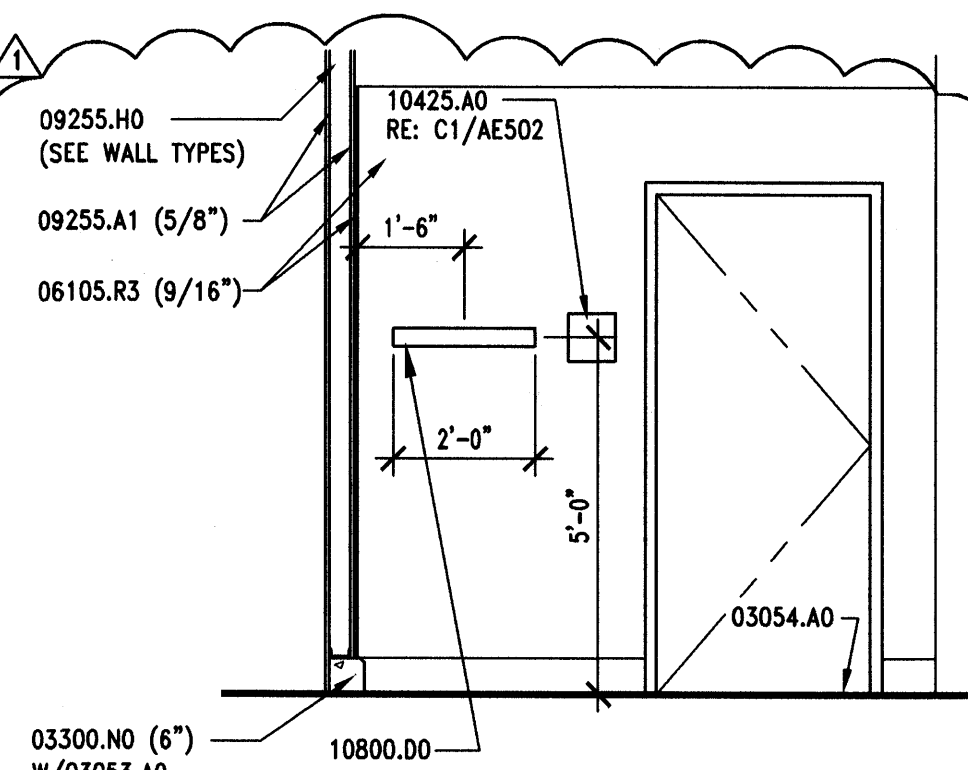
RE: SPECIFICATION - 10425 FOR INFO.  
**D3 SIGNAGE "C"**  
 AE502 REF. AE101 SCALE: NO SCALE



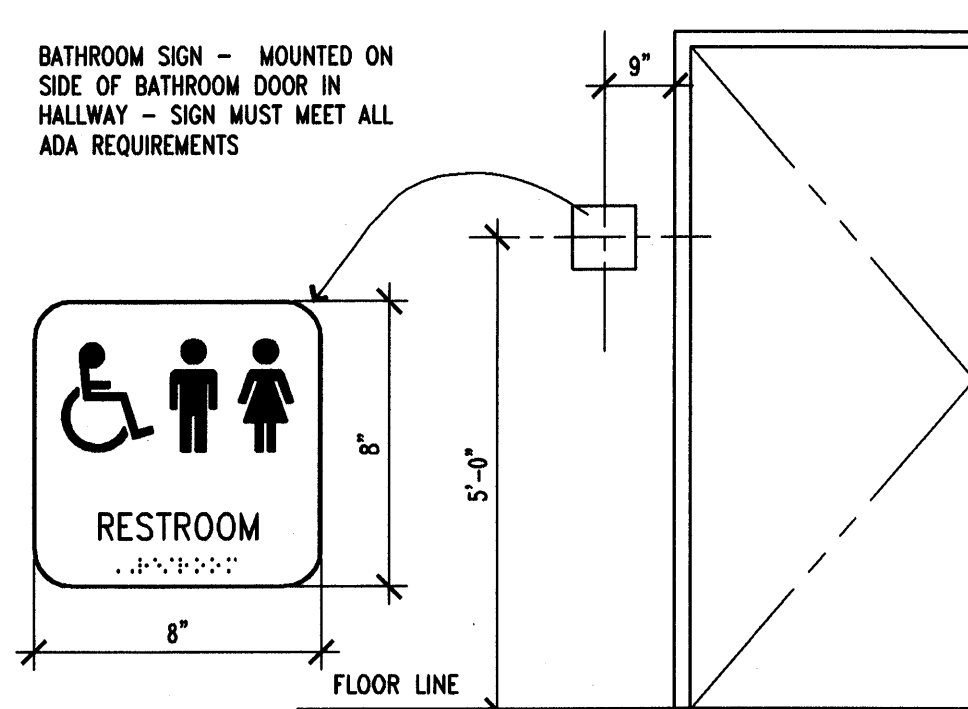
**C3 LOW PARTITION WALL DTL.**  
 AE502 REF. AE101 SCALE: 3/4" = 1'-0"  
 12" 8" 4" 0 6" 1' 2' 3"



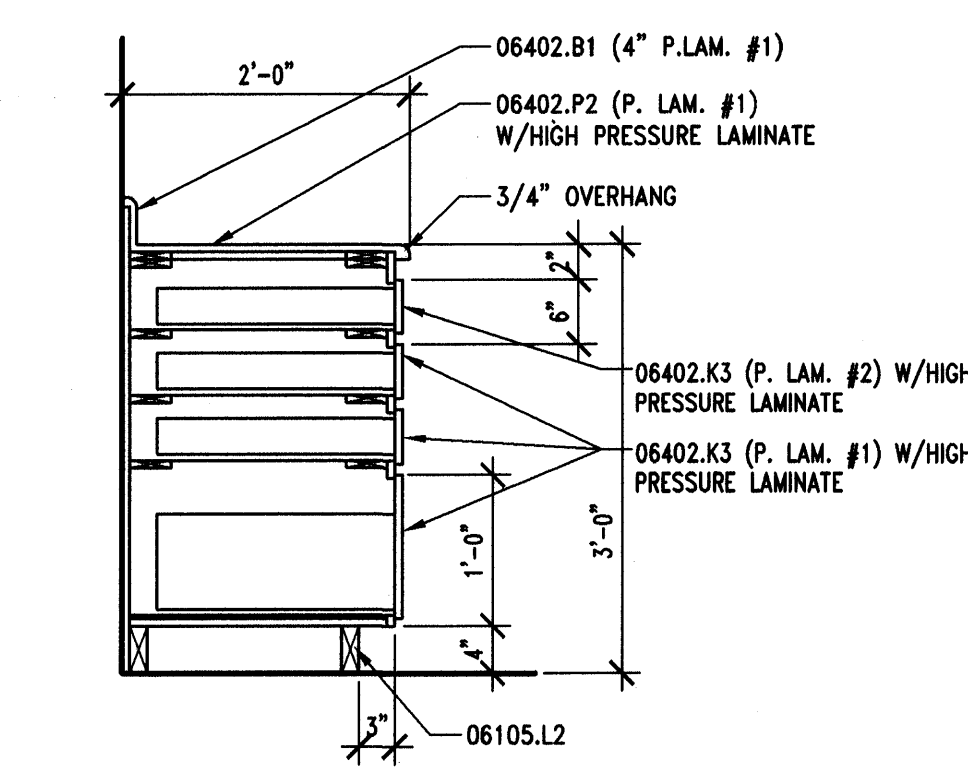
**B3 BULLNOSE TILE DETAIL**  
 AE502 REF. AE401 SCALE: 3" = 1'-0"



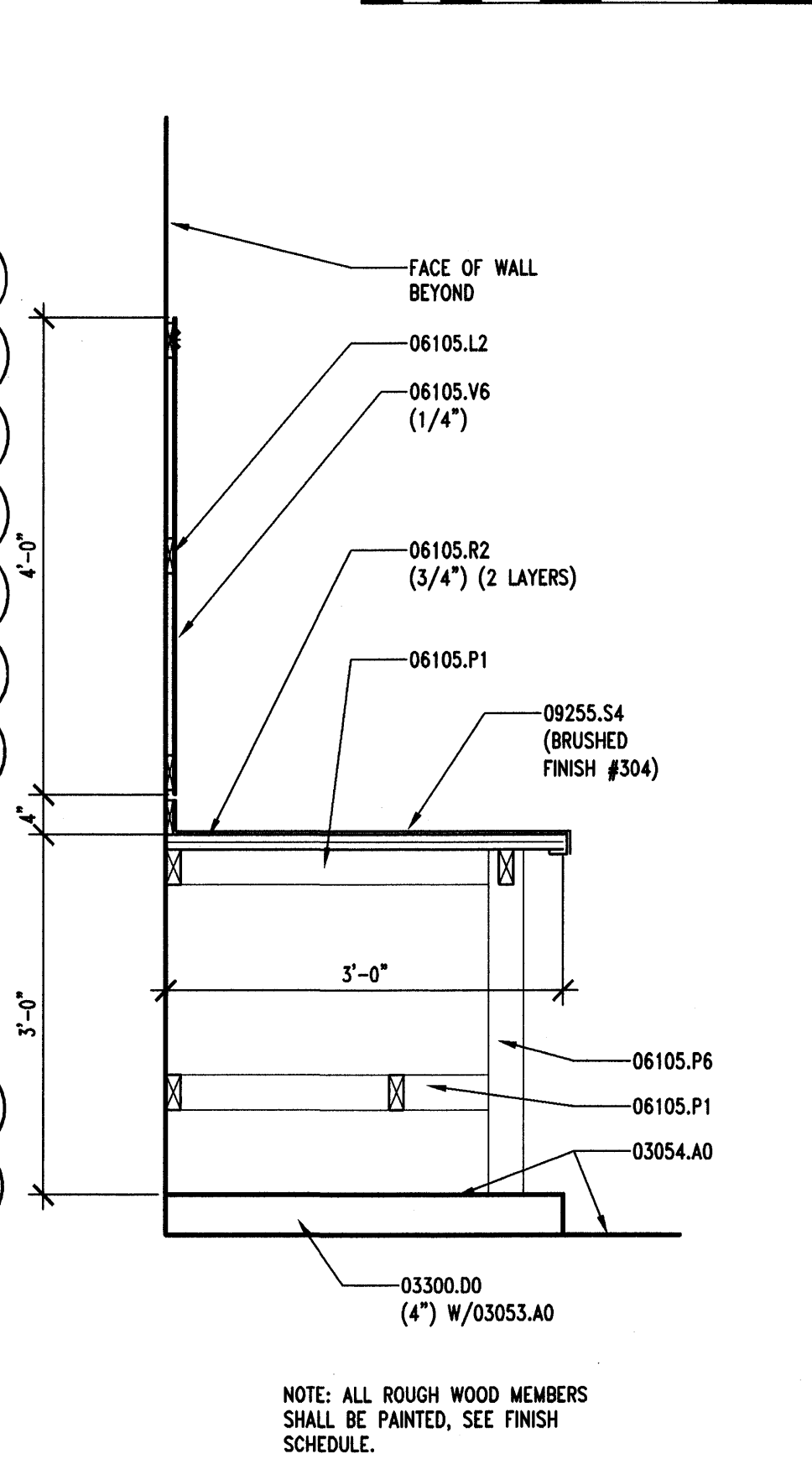
**A3 MOP RACK DETAIL**  
 AE502 REF. AE401 SCALE: 3/8" = 1'-0"  
 12" 8" 4" 0 6" 1' 2' 3"



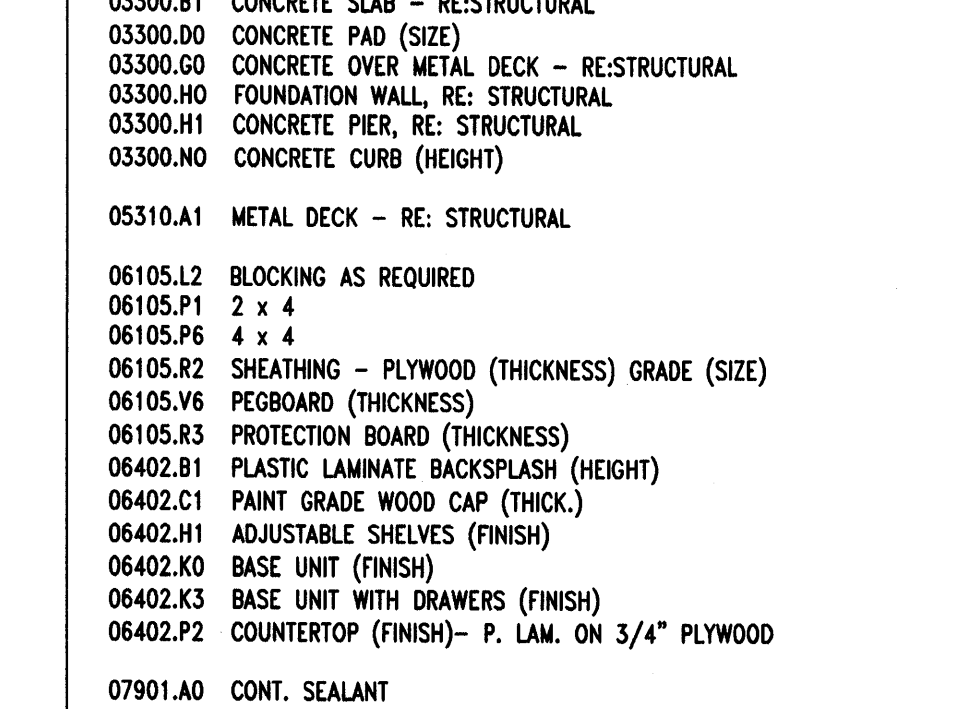
RE: SPECIFICATION - 10425 FOR INFO.  
**D4 SIGNAGE "D"**  
 AE502 REF. AE101 SCALE: NO SCALE



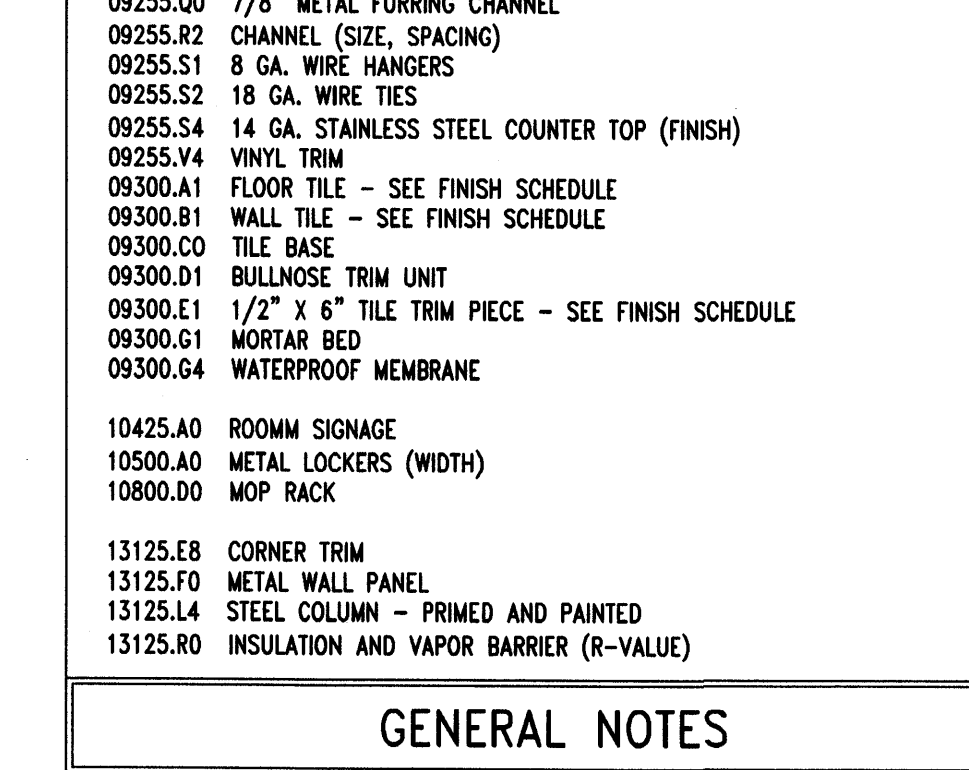
**C4 BASE CABINET SECTION**  
 AE502 REF. AE402 SCALE: 3/4" = 1'-0"  
 12" 8" 4" 0 6" 1' 2' 3"



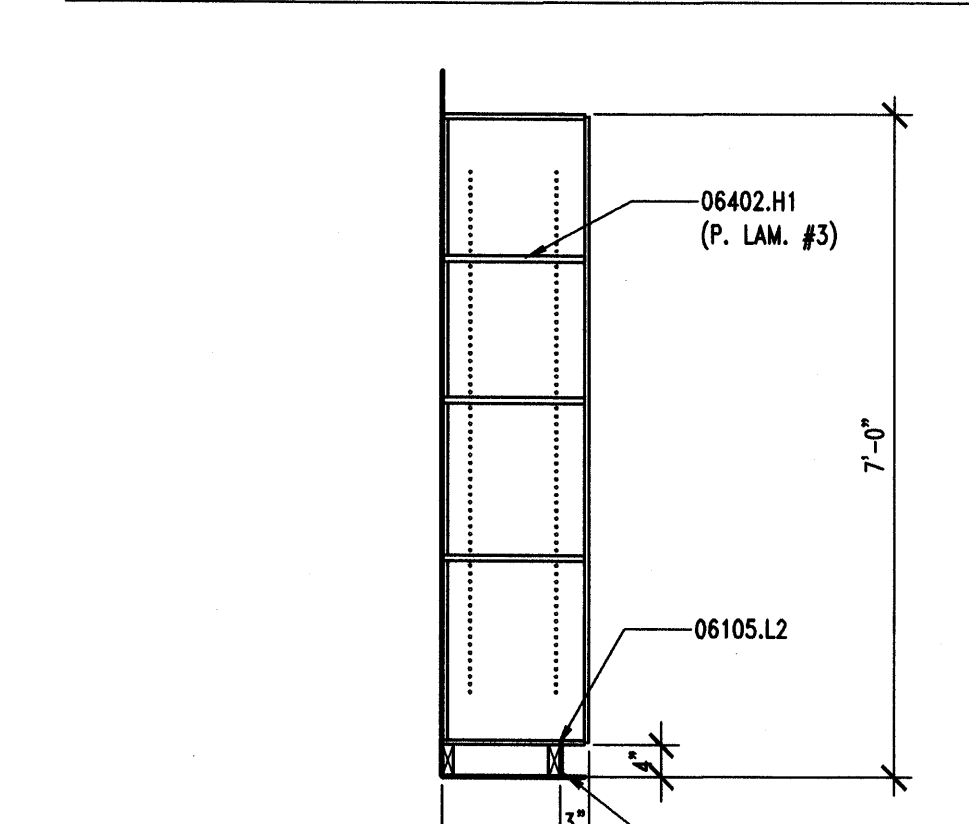
**A4 WORK BENCH SECTION**  
 AE502 REF. AE402 SCALE: 3/4" = 1'-0"  
 12" 8" 4" 0 6" 1' 2' 3"



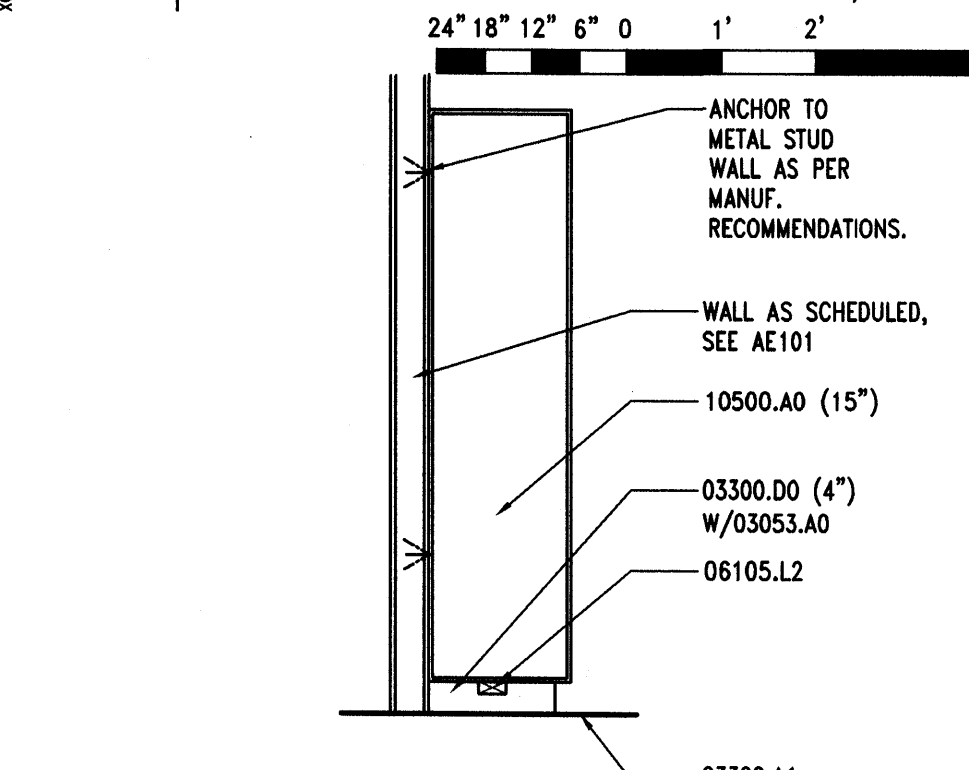
RE: SPECIFICATION - 10425 FOR INFO.  
**D5 SIGNAGE "E"**  
 AE502 REF. AE101 SCALE: NO SCALE



**C5 LOW PARTITION WALL DTL.**  
 AE502 REF. AE101 SCALE: 3/4" = 1'-0"  
 12" 8" 4" 0 6" 1' 2' 3"



**B5 SHELVING SECTION**  
 AE502 REF. AE502 SCALE: 1/2" = 1'-0"  
 24" 18" 12" 6" 0 1' 2' 4"



**A5 LOCKER SECTION**  
 AE502 REF. AE402 SCALE: 1/2" = 1'-0"  
 24" 18" 12" 6" 0 1' 2' 4"

## KEYNOTES

- 03053.A0 CONCRETE WATER PROOFING ADMIXTURE
- 03054.A0 OLIOPHOBIC TOPICAL SEALER
- 03300.A1 CONCRETE SLAB-ON-GRADE - RE: STRUCTURAL
- 03300.B1 CONCRETE SLAB - RE:STRUCTURAL
- 03300.D0 CONCRETE PAD (SIZE)
- 03300.G0 CONCRETE OVER METAL DECK - RE:STRUCTURAL
- 03300.H0 FOUNDATION WALL, RE: STRUCTURAL
- 03300.H1 CONCRETE PIER, RE: STRUCTURAL
- 03300.N0 CONCRETE CURB (HEIGHT)

- 05310.A1 METAL DECK - RE: STRUCTURAL
- 06105.L2 BLOCKING AS REQUIRED
- 06105.P1 2 x 4
- 06105.P6 4 x 4
- 06105.R2 SHEATHING - PLYWOOD (THICKNESS) GRADE (SIZE)
- 06105.V6 PEGBOARD (THICKNESS)
- 06105.R3 PROTECTION BOARD (THICKNESS)
- 06402.B1 PLASTIC LAMINATE BACKSPLASH (HEIGHT)
- 06402.C1 PLASTIC LAMINATE BACKSPLASH (THICK.)
- 06402.H1 ADJUSTABLE SHELVES (FINISH)
- 06402.K0 BASE UNIT (FINISH)
- 06402.K3 BASE UNIT WITH DRAWERS (FINISH)
- 06402.P2 COUNTERTOP (FINISH)- P. LAM. ON 3/4" PLYWOOD
- 07901.A0 CONT. SEALANT

- 09255.A1 GYPSUM BOARD (THICKNESS)
- 09255.A2 WATER RESISTANT GYPSUM BOARD (THICKNESS)
- 09255.B2 TYPE "X" GYPSUM BOARD (THICKNESS)
- 09255.C3 CEMENT BOARD (THICKNESS)
- 09255.H0 METAL STUD
- 09255.H1 METAL STUDS, (SIZE, SPACING)
- 09255.M2 METAL CORNER BEAD (TYP.)
- 09255.O0 7/8" METAL FURRING CHANNEL
- 09255.R2 CHANNEL (SIZE, SPACING)
- 09255.S1 8 GA. WIRE HANGERS
- 09255.S2 18 GA. WIRE TIES
- 09255.S4 14 GA. STAINLESS STEEL COUNTER TOP (FINISH)
- 09255.V4 VINYL TRIM
- 09300.A1 FLOOR TILE - SEE FINISH SCHEDULE
- 09300.B1 WALL TILE - SEE FINISH SCHEDULE
- 09300.C0 TILE BASE
- 09300.D1 BULLNOSE TRIM UNIT
- 09300.E1 1/2" x 6" TILE TRIM PIECE - SEE FINISH SCHEDULE
- 09300.G1 MORTAR BED
- 09300.G4 WATERPROOF MEMBRANE

- 10425.A0 ROOMW SIGNAGE
- 10500.A0 METAL LOCKERS (WIDTH)
- 10800.D0 MOP RACK
- 13125.EB CORNER TRIM
- 13125.F0 METAL WALL PANEL
- 13125.L4 STEEL COLUMN - PRIMED AND PAINTED
- 13125.R0 INSULATION AND VAPOR BARRIER (R-VALUE)

## GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.
2. DO NOT SCALE DRAWINGS.
3. SEE SHEET AE602 FOR PLASTIC LAMINATE COLORS.

## CLIENT

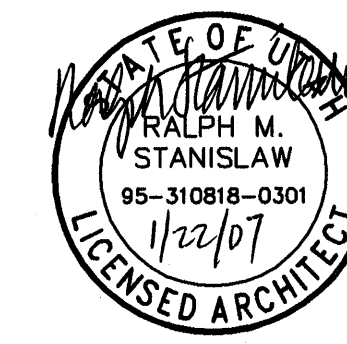
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## CONSULTANTS

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## ISSUE

MARK	DATE	DESCRIPTION
△	01/15/07	DFCM REVIEW COMMENTS
	12/08/06	CONSTRUCTION DOCUMENTS
	08/28/06	95% DESIGN SUBMITTAL
	07/17/06	60% DESIGN SUBMITTAL

DFCM CONTRACT NO:	067477
DFCM PROJECT NO:	06034900
ARCHIPLEX PROJECT NO:	0609.01
DRAWN BY:	K. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	AS SHOWN
DATE:	DECEMBER 8, 2006

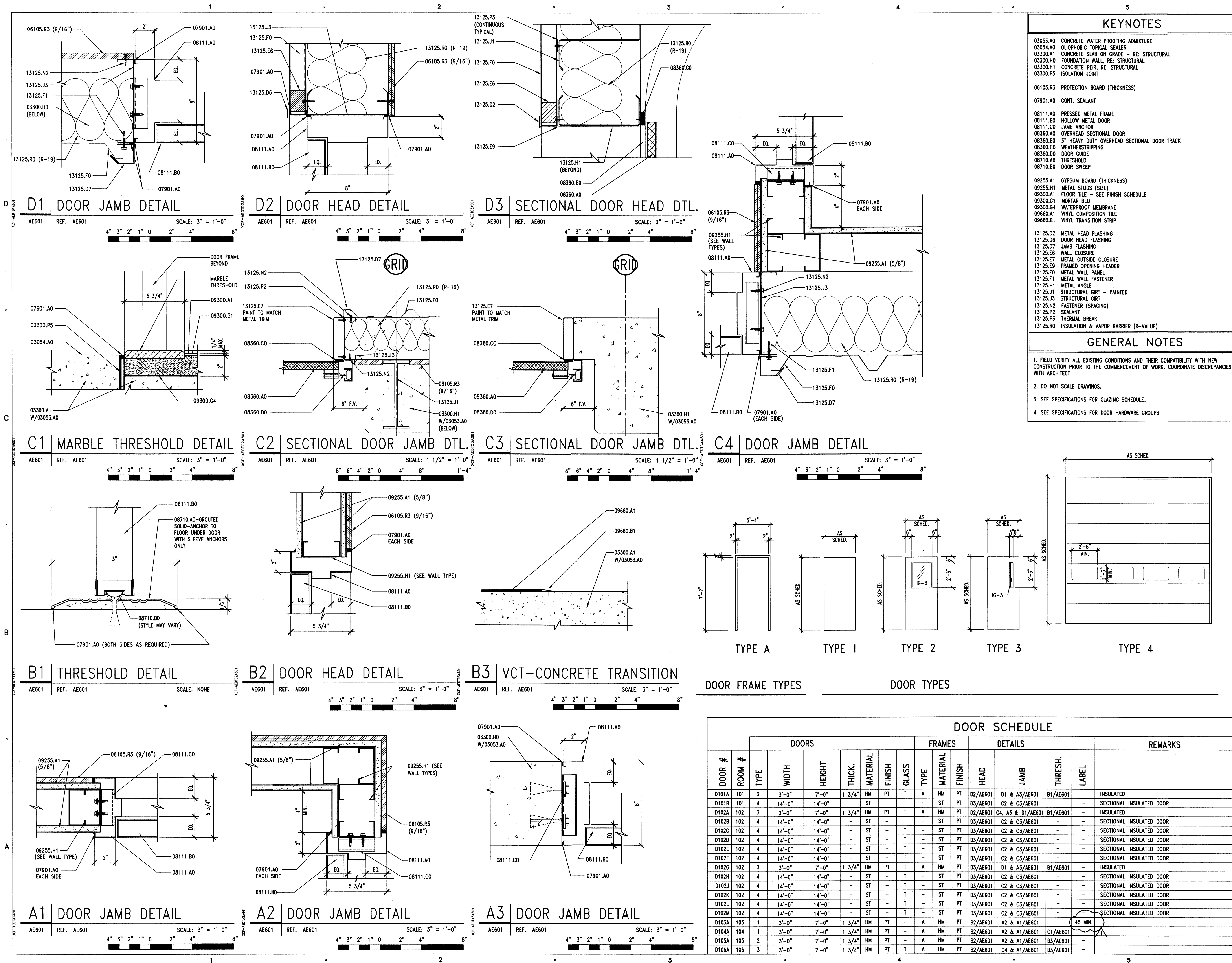
## KEY PLAN

## SHEET TITLE

**SIGNAGE AND  
 MISC. DETAILS**

**AE502**





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1/15/07	DFCM REVIEW COMMENTS
12/08/06	CONSTRUCTION DOCUMENTS
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MARK

DATE

DESCRIPTION

DFCM CONTRACT NO:

067477

DFCM PROJECT NO:

06034900

ARCHIPLEX PROJECT NO:

0609.01

DRAWN BY:

K. PHILLIPS

CHECKED BY:

R. STANISLAW

SCALE:

AS SHOWN

DATE:

DECEMBER 8, 2006

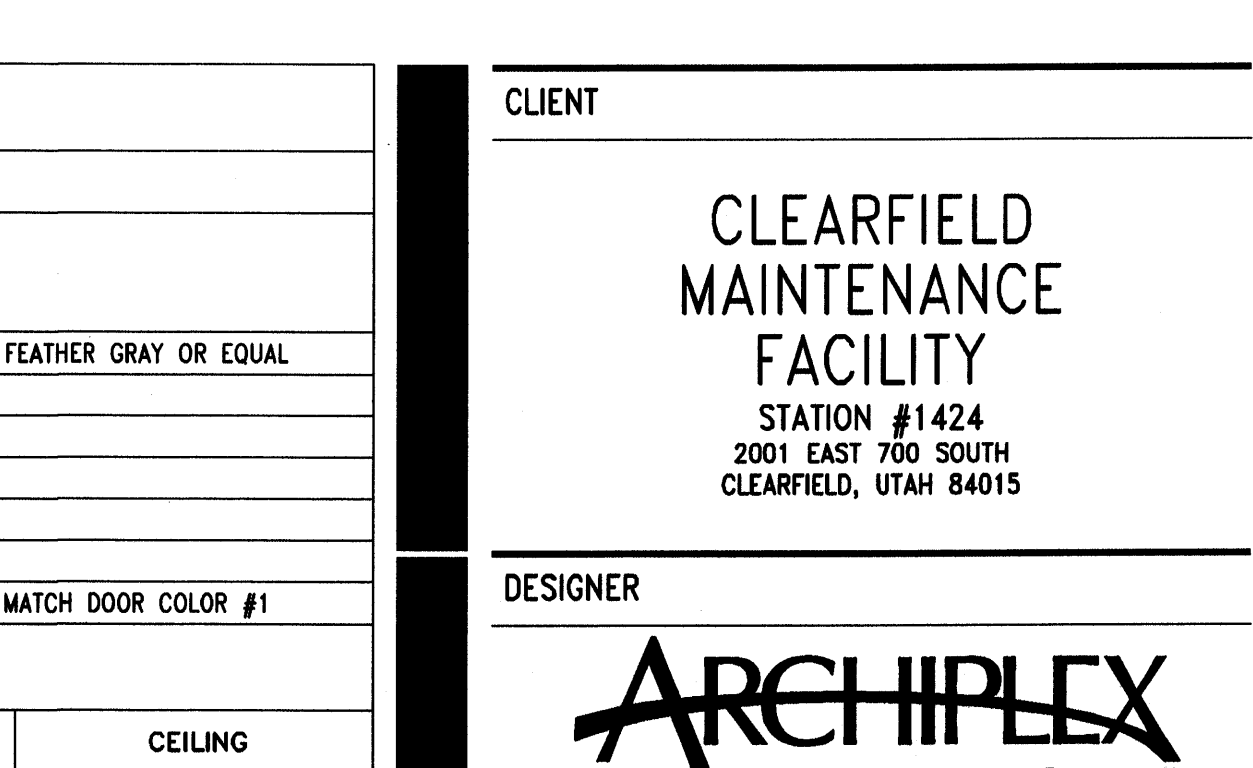
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SHEET TITLE

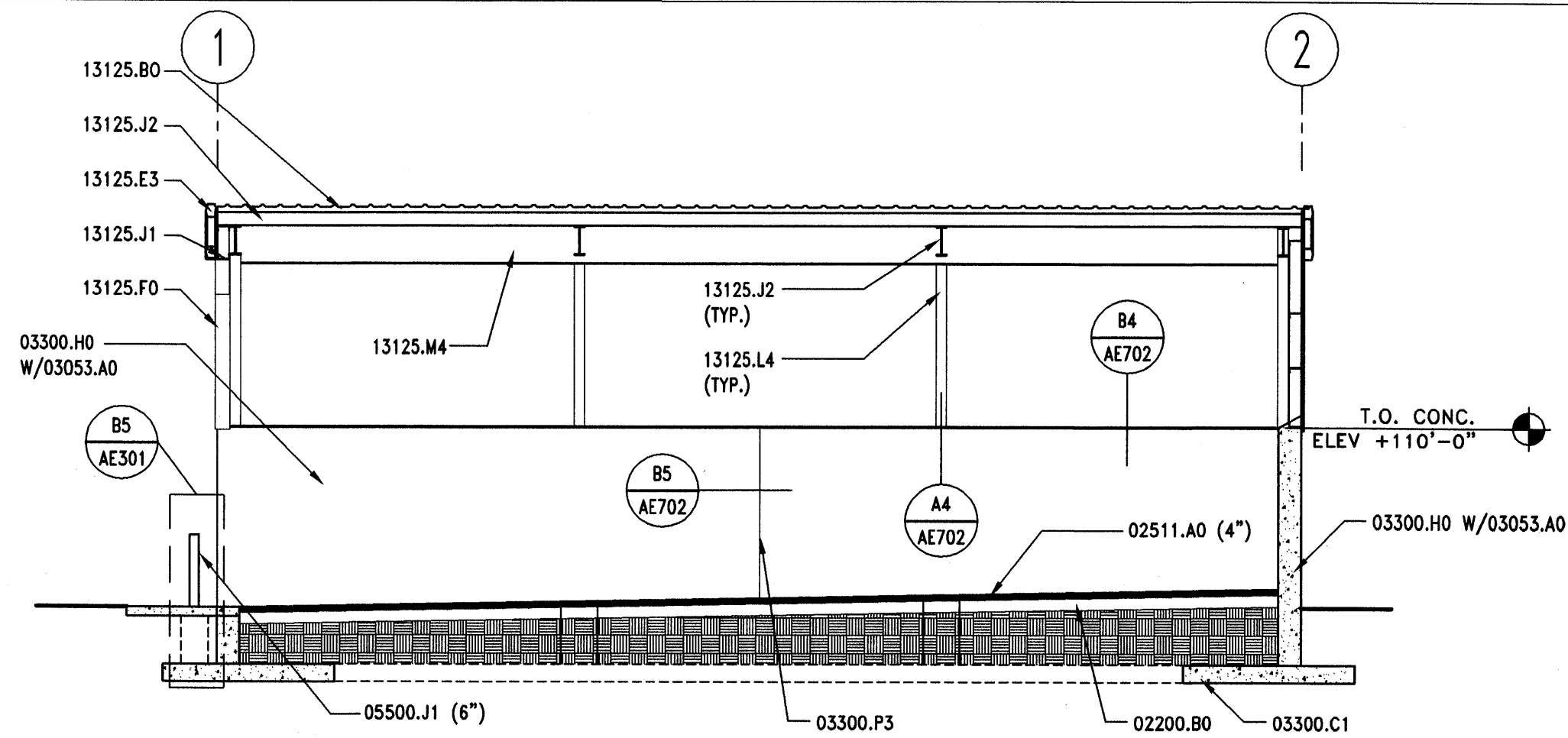
DOOR SCHEDULE  
AND DETAILS

AE601



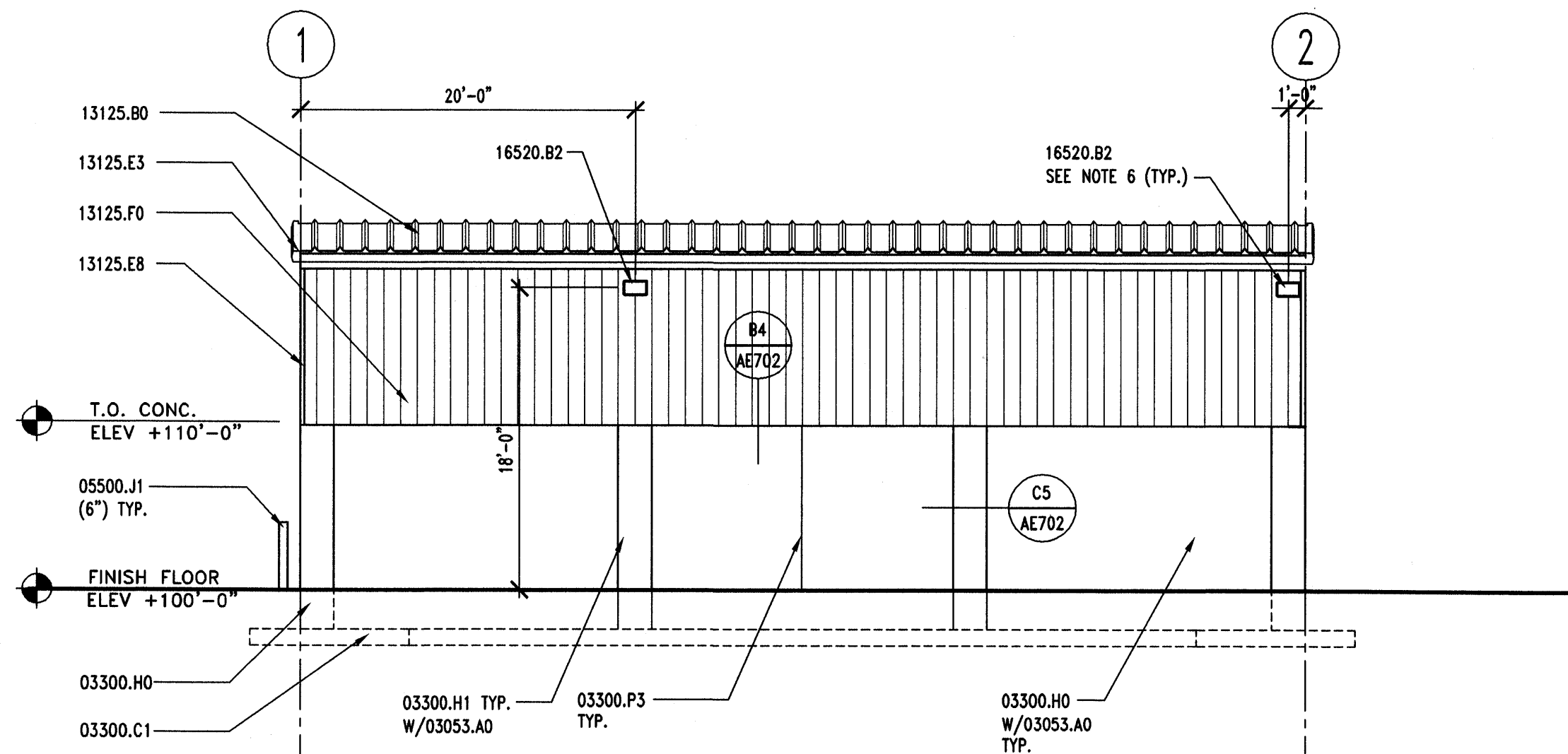


2 1/2"	FROM CONTRACT NO.	06034900
	DFCM PROJECT NO:	0609.01
	ARCHIPEX PROJECT NO:	K. PHILLIPS
	DRAWN BY:	R. STANISLAW
	CHECKED BY:	AS SHOWN
	SCALE:	DECEMBER 8, 2006
	DATE:	
	KEY PLAN	
	SHEET TITLE	
	WINDOW FRAME TYPES, GLAZING & FINISH SCHEDULES AND DETAILS	
	AE602	



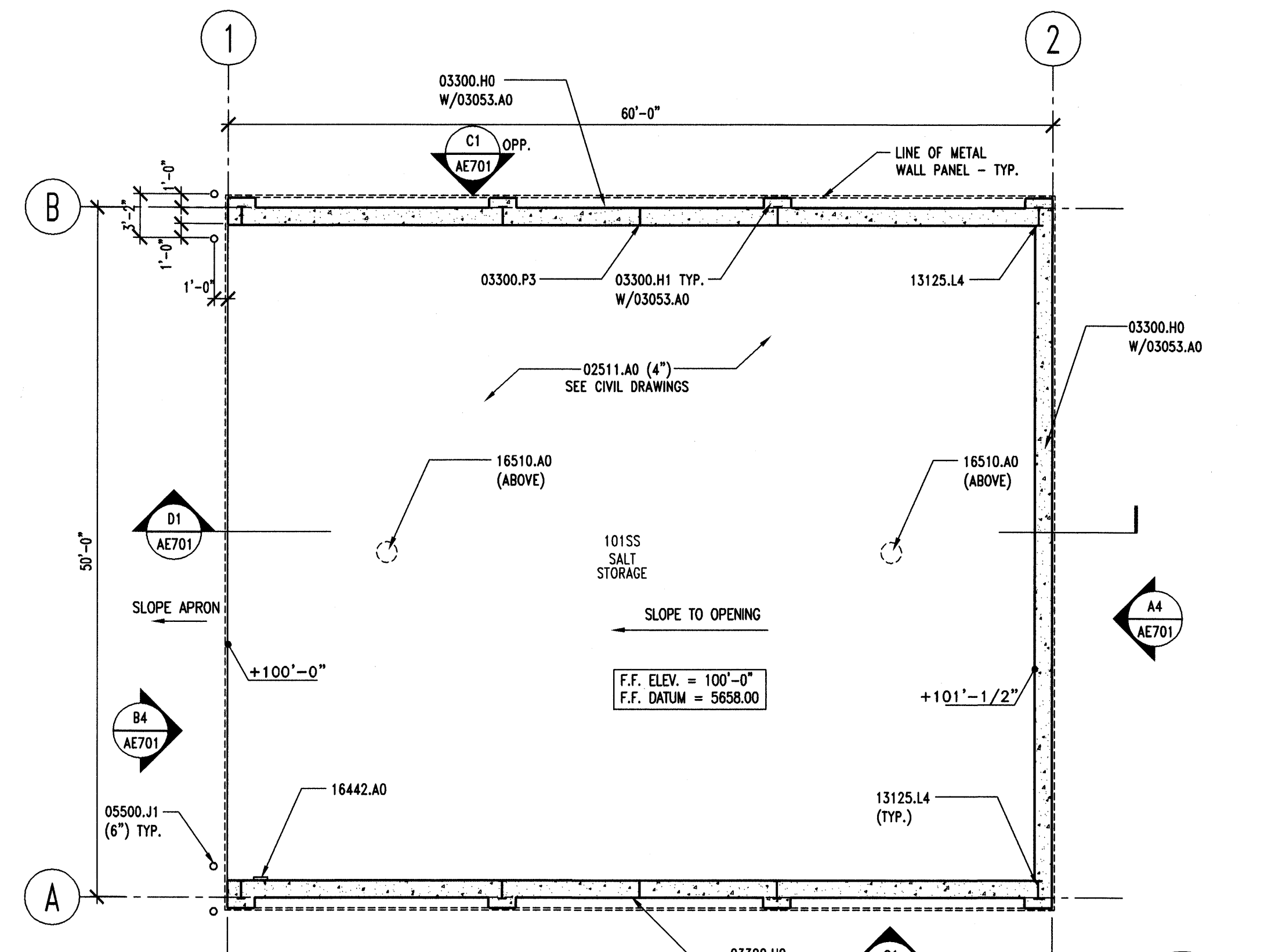
D1 | SALT STORAGE BLDG. - SECTION

AE701 REF. AE701 SCALE: 1/8" = 1'-0"



C1 | SALT STORAGE BLDG. - EAST/WEST ELEVATION

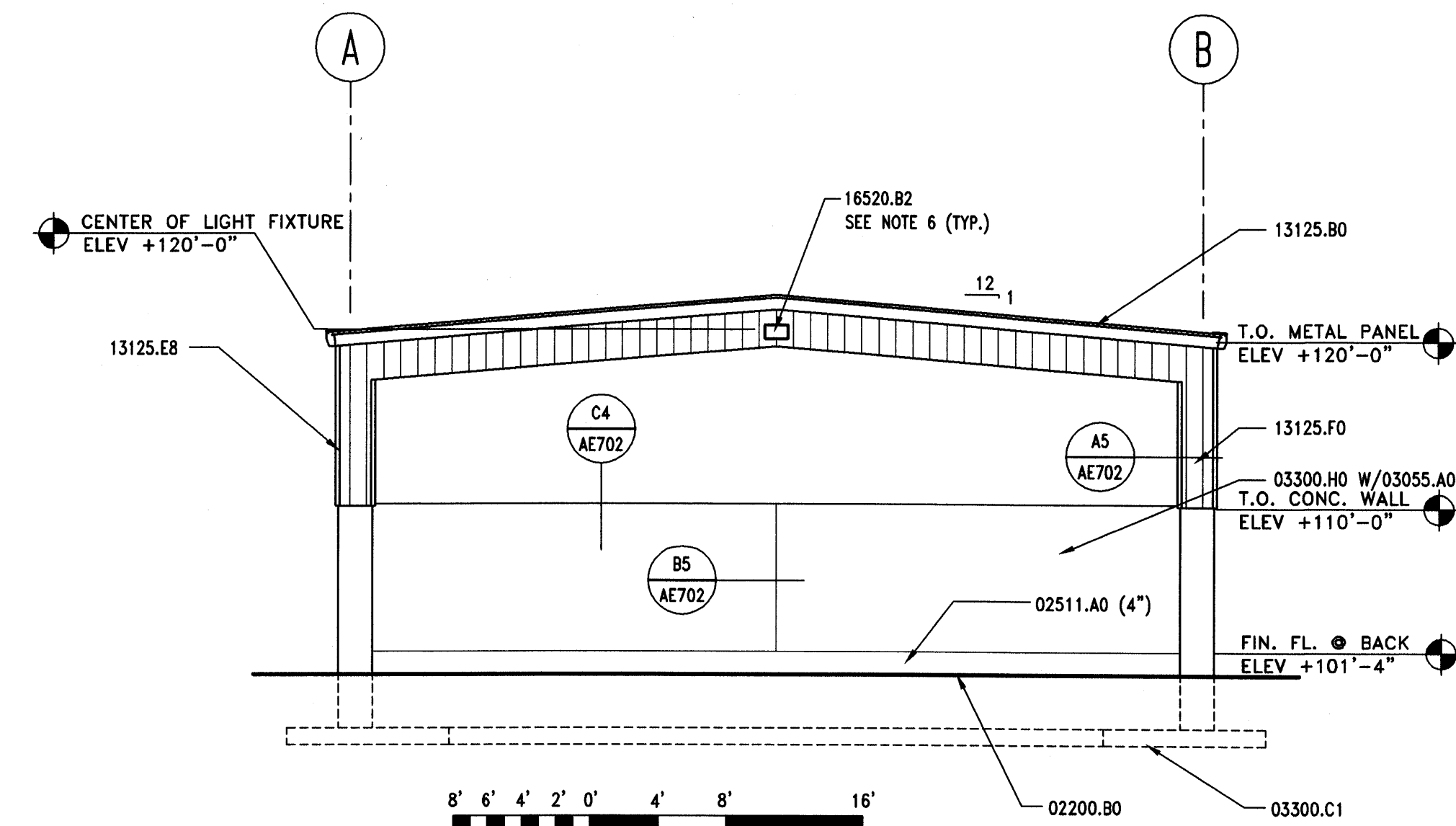
AE701 REF. AE701 SCALE: 1/8" = 1'-0"



A1 | SALT STORAGE BLDG. - FLOOR PLAN

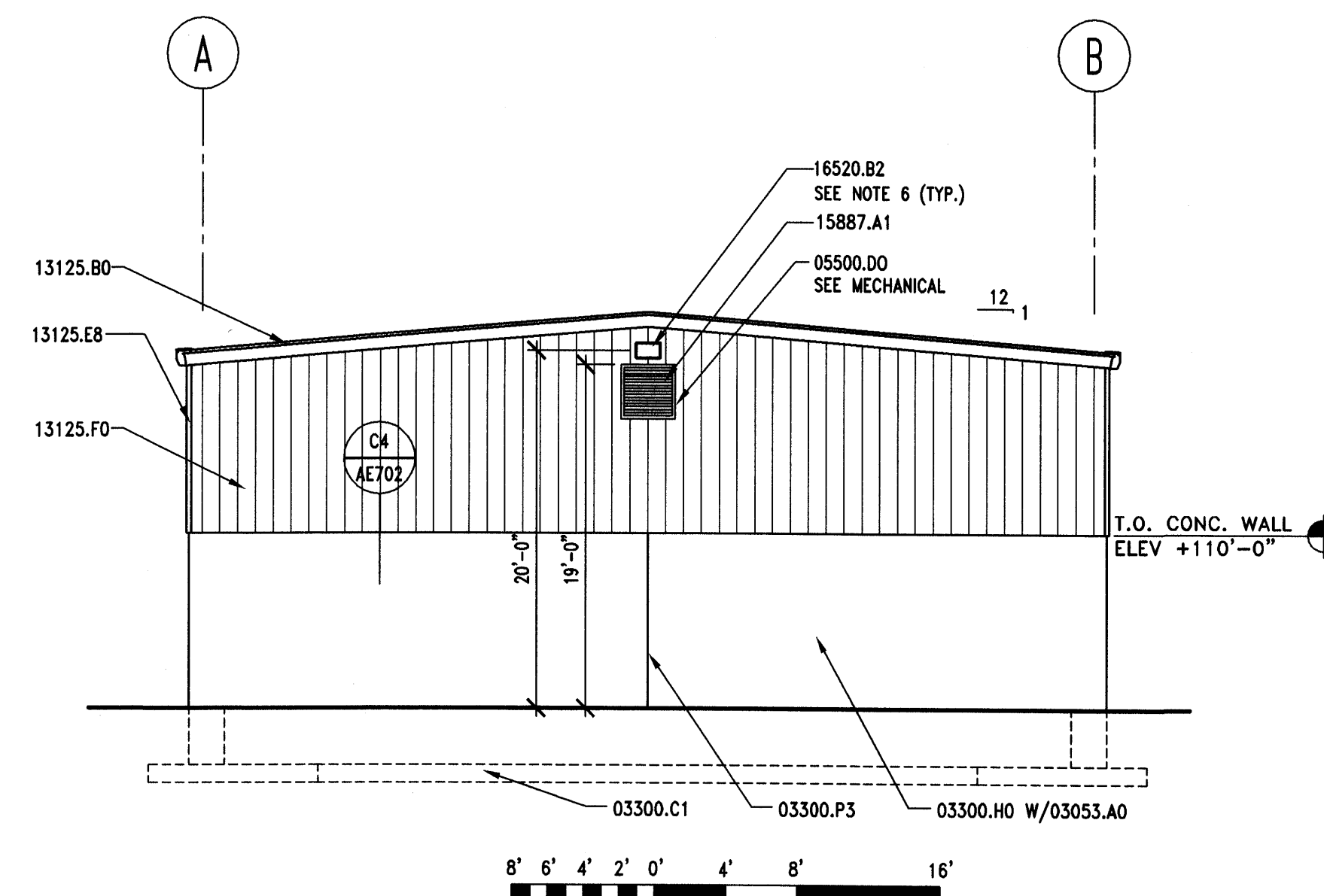
AE701 REF. AE701 SCALE: 1/8" = 1'-0"

GENERAL NOTES	KEYNOTES
1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.	02200.B0 GRAVEL BASE 02511.A0 ZERO VOIDS ASPHALTIC PAVING (THICKNESS)
2. DO NOT SCALE DRAWINGS.	03053.A0 CONCRETE WATER PROOFING ADMIXTURE 03300.C1 FOOTING RE: STRUCTURAL 03300.H0 FOUNDATION WALL, RE: STRUCTURAL 03300.H1 CONCRETE PIER, RE: STRUCTURAL 03300.P3 CONTROL JOINT RE: STRUCTURAL DETAIL B2/S503
3. SEE CIVIL, STRUCTURAL, AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.	05500.D0 CHANNEL (SIZE) 05500.J1 PIPE BOLLARD (DIAMETER) GALVANIZED & PAINTED
4. ALL EXPOSED STEEL IN SALT STORAGE BUILDING TO BE EPOXY COATED. RE: STRUCTURAL DRAWINGS.	13125.B0 STANDING SEAM METAL ROOF 13125.E3 RAKE TRIM 13125.E8 CORNER TRIM 13125.F0 METAL WALL PANEL 13125.J1 STRUCTURAL GIRT - PAINTED 13125.J2 ROOF PURLIN - PAINTED 13125.L4 STEEL COLUMN - PRIMED AND PAINTED 13125.M4 STEEL BEAM - PRIMED AND PAINTED
5. PROVIDE 3/4" CHAMFER AT ALL OUTSIDE CORNERS.	15887.A1 LOUVER WITH BIRD SCREEN (36" x 36" RUSHKIN #ELF-3750)
6. EXTERIOR LIGHTS MUST BE SUPPORTED BY SUITABLE STRUCTURAL BRACING TO BE PROVIDED BY THE METAL BUILDING MANUFACTURER.	16442.A0 ELECTRICAL PANEL 16510.A0 INTERIOR LIGHTS 16520.B2 EXTERIOR WALL MOUNTED FLOOD LIGHTS
EXTERIOR COLOR SCHEDULE	
(13125.B0) METAL ROOF: GALVALUME METAL ROOF (13125.E3 & E8) RAKE TRIM & CORNER TRIM: SILICONIZED POLYESTER FINISH - COLOR "B" BY ARCHITECT (13125.F0) METAL WALL PANEL: SILICONIZED POLYESTER FINISH - COLOR "A" BY ARCHITECT (08111.A0, B0 & 08360.A0) DOORS & FRAMES: KYNAR 500 "BONE WHITE" OR EQUAL (05500.J1) BOLLARDS: OSHA SAFETY YELLOW	



B4 | SALT STORAGE BLDG. - SOUTH ELEVATION

AE701 REF. AE701 SCALE: 1/8" = 1'-0"



A4 | SALT STORAGE BLDG. - NORTH ELEVATION

AE701 REF. AE701 SCALE: 1/8" = 1'-0"

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DRAWN BY:	K. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	1/8"=1'-0"
DATE:	DECEMBER 8, 2006

KEY PLAN

SHEET TITLE

SITE STRUCTURES

SALT STORAGE PLAN,  
SECTIONS & ELEV.

AE701



DESIGNER

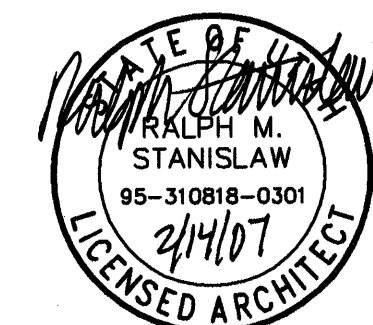
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MARK	DATE	DESCRIPTION
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DFCM CONTRACT NO: 067477

DFCM PROJECT NO: 06034900

ARCHIPEX PROJECT NO: 0609.0

DRAWN BY: K. PHILLIPS

CHECKED BY: R. STANISLAW

SCALE: \_\_\_\_\_ AS SHOWN

DATE: DECEMBER 8, 2000

## KEY PLAN

## KEY PLAN

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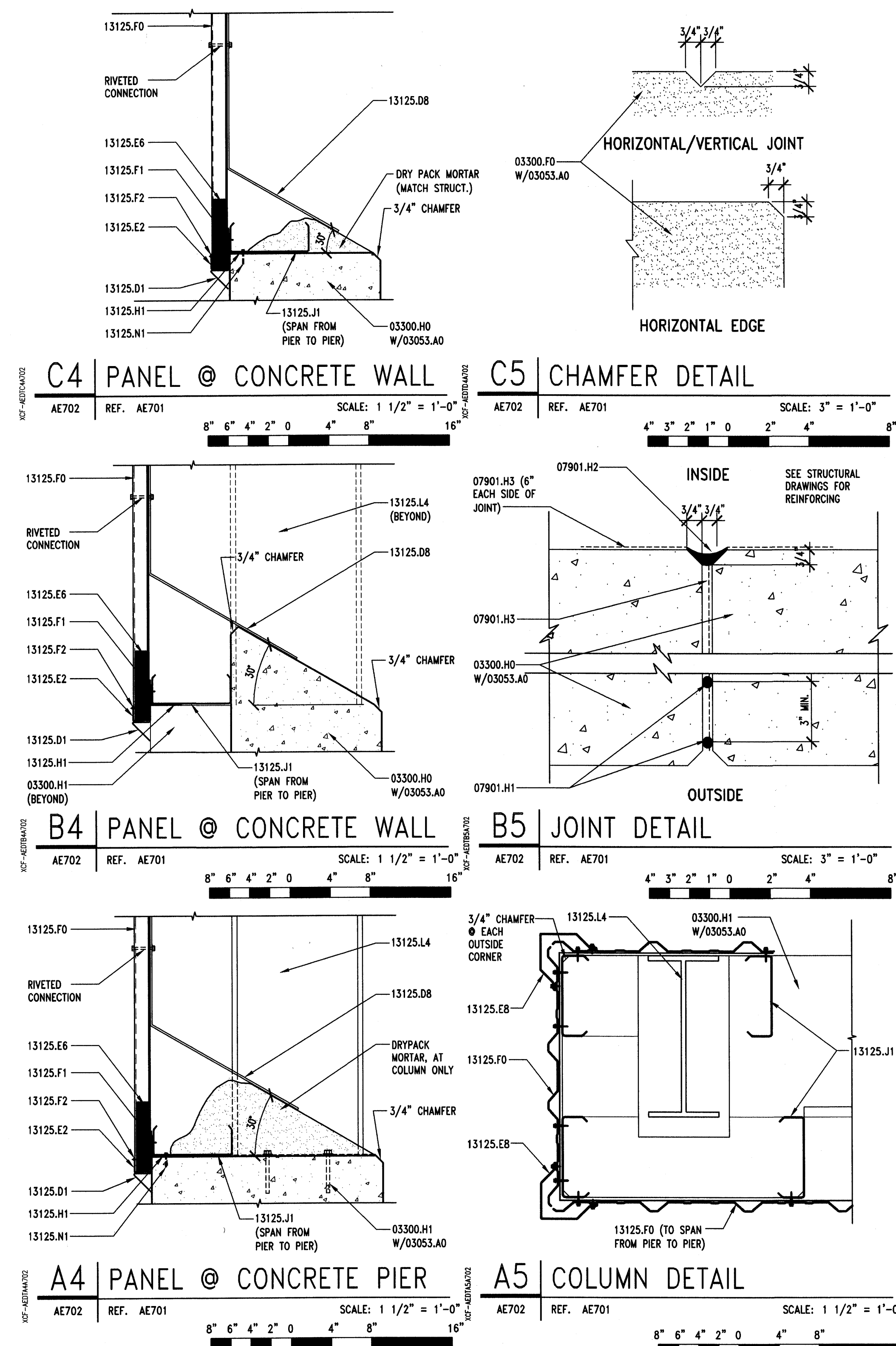
1. *Journal of the American Medical Association*, 1997; 277: 1039-1043.

SHEET TITLE

## SITE STRUCTURES

## SALT STORAGE DETAILS

AE702



## KEYNOTES

03053.A0	CONCRETE WATER PROOFING ADMIXTURE
03300.A1	CONCRETE SLAB-ON-GRADE - RE: STRUCTURAL
03300.P7	SAWCUT CONSTRUCTION JOINT, TYP.
03300.S2	CONCRETE SWALE

05120.B1 COLUMN - RE: STRUCTURAL - GALVANIZED  
05500.J1 PIPE BOLLARD (DIAMETER) GALVANIZED  
05510.F1 STEEL STRINGER - GALVANIZED  
05521.A3 1 1/2" O.D. PIPE GUARDRAIL - GALVANIZED  
05521.B3 1 1/2" O.D. PIPE HANDRAIL - GALVANIZED  
05530.C1 METAL GRATE PANEL - GALV.  
05530.C2 METAL GRATE TREAD - GALV.

## GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.

2. DO NOT SCALE DRAWINGS.

3. SEE CIVIL, STRUCTURAL & ELECTRICAL DRAWINGS FOR MORE INFORMATION.

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FACILITY

STATION #1424  
2001 EAST 700 SOUTH  
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DESIGNER

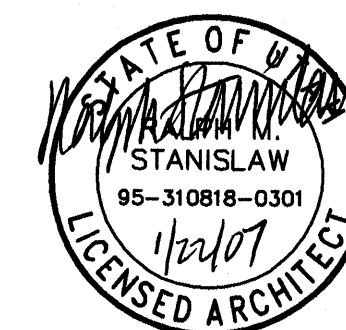
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ARCHIPLEX PROJECT NO: 0609.01

DRAWN BY: K. PHILLIPS

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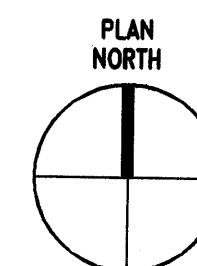
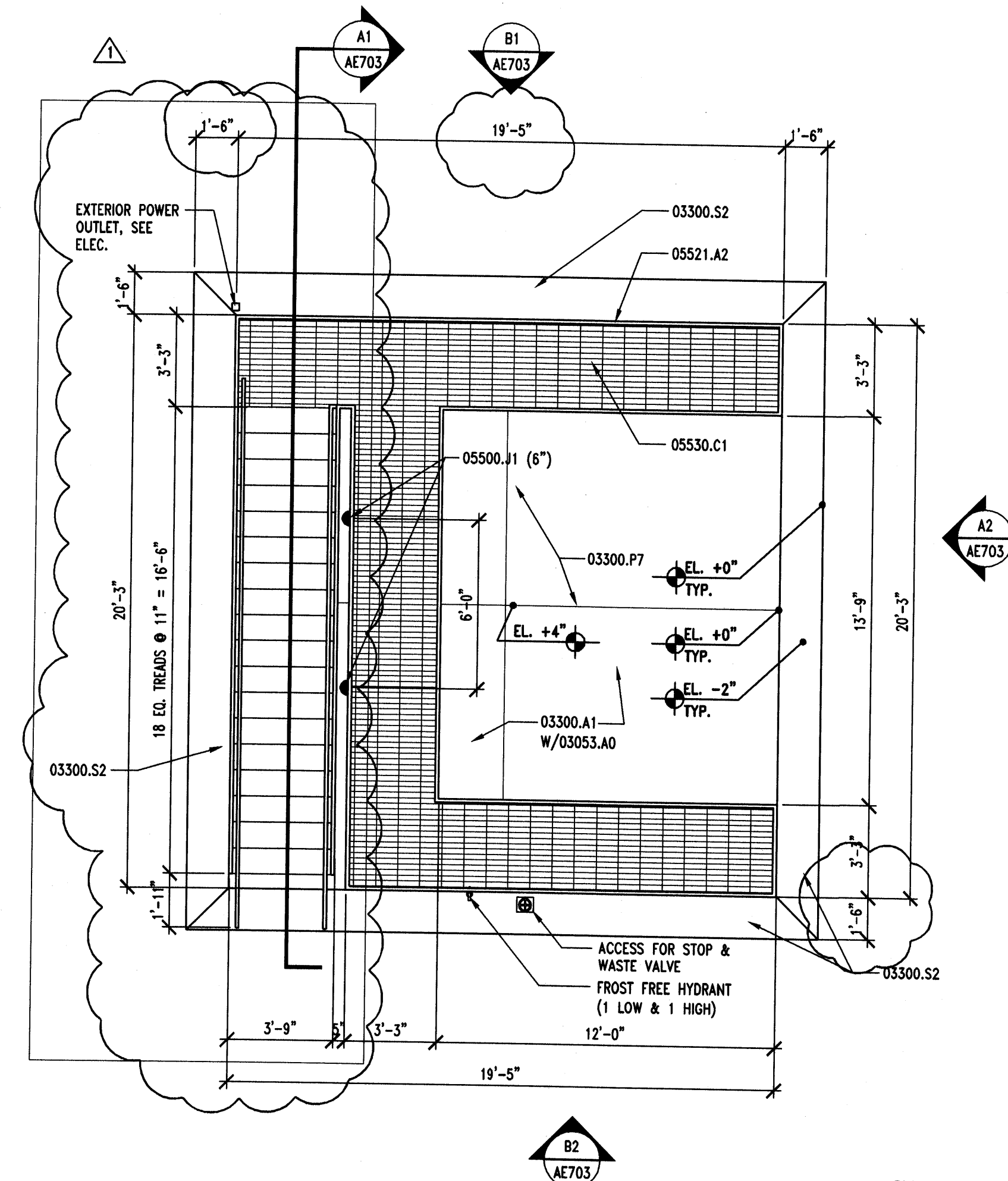
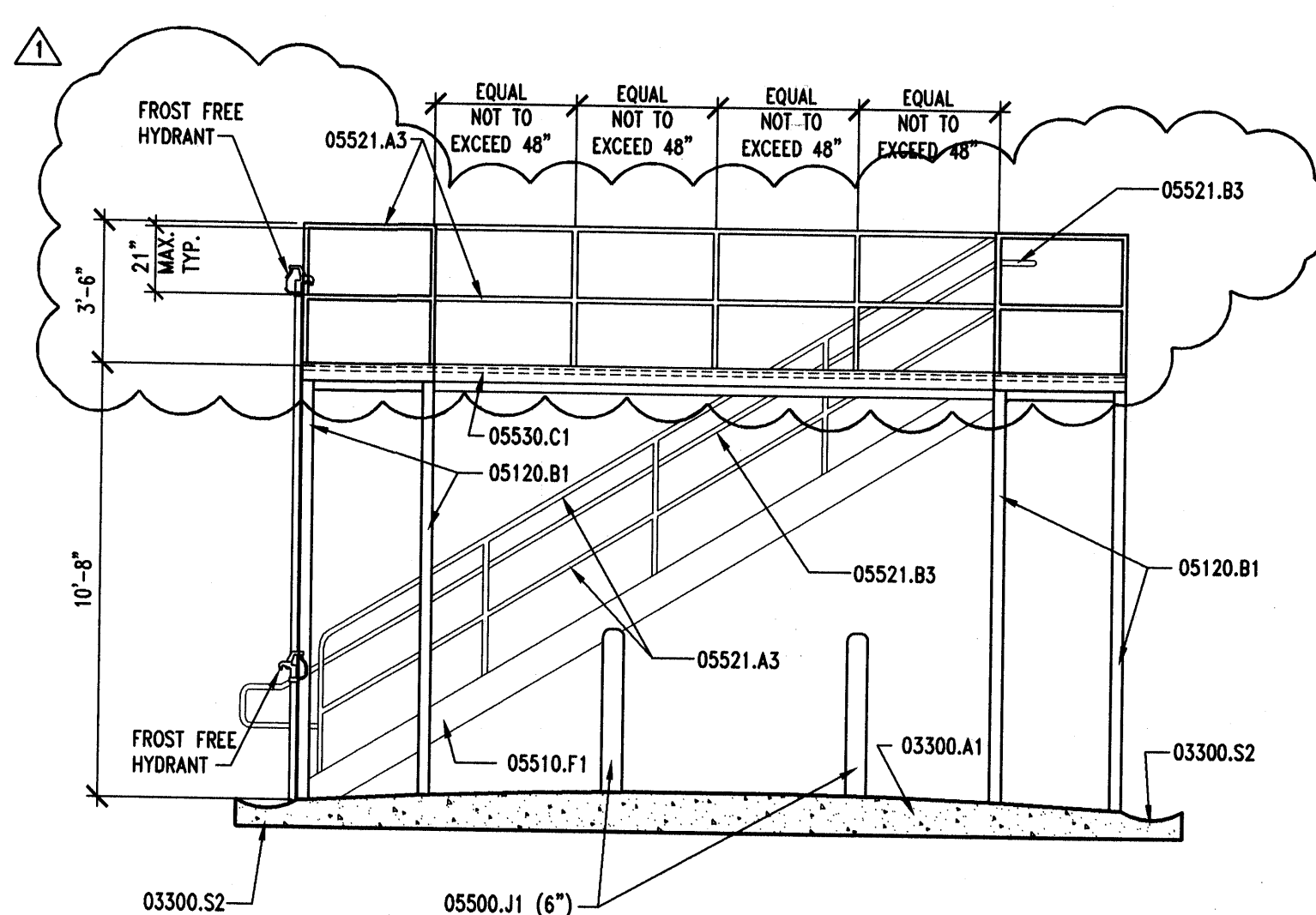
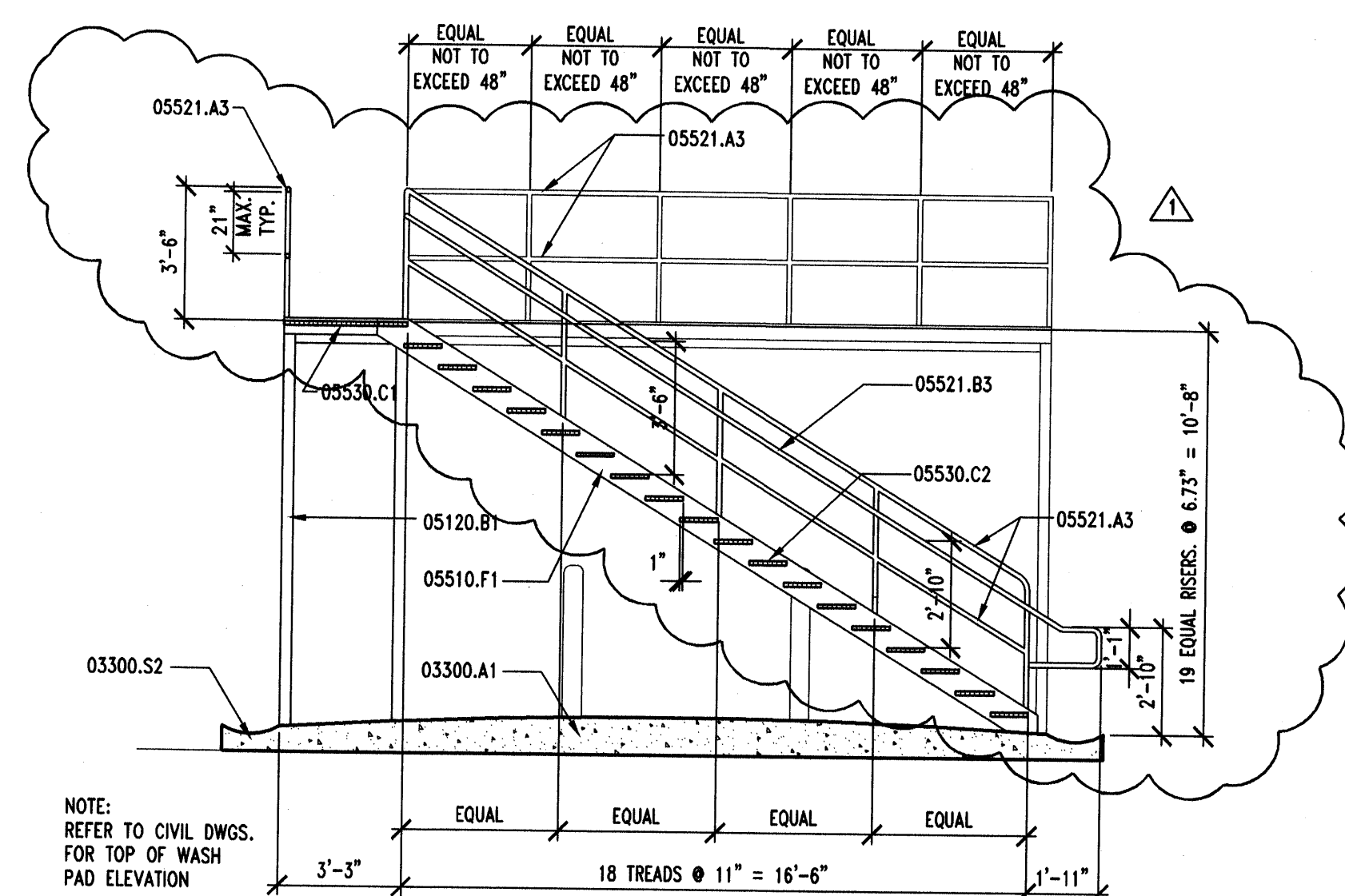
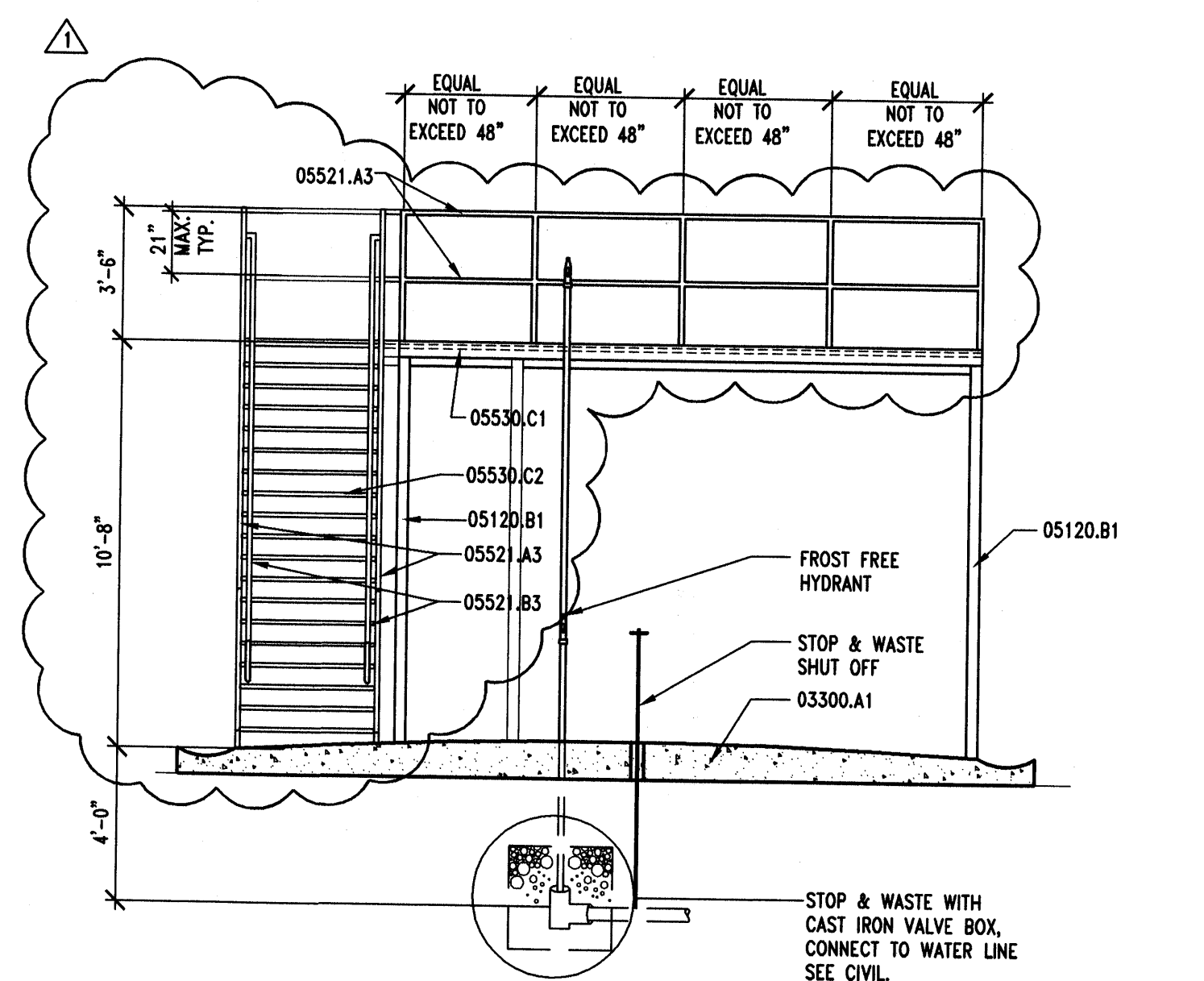
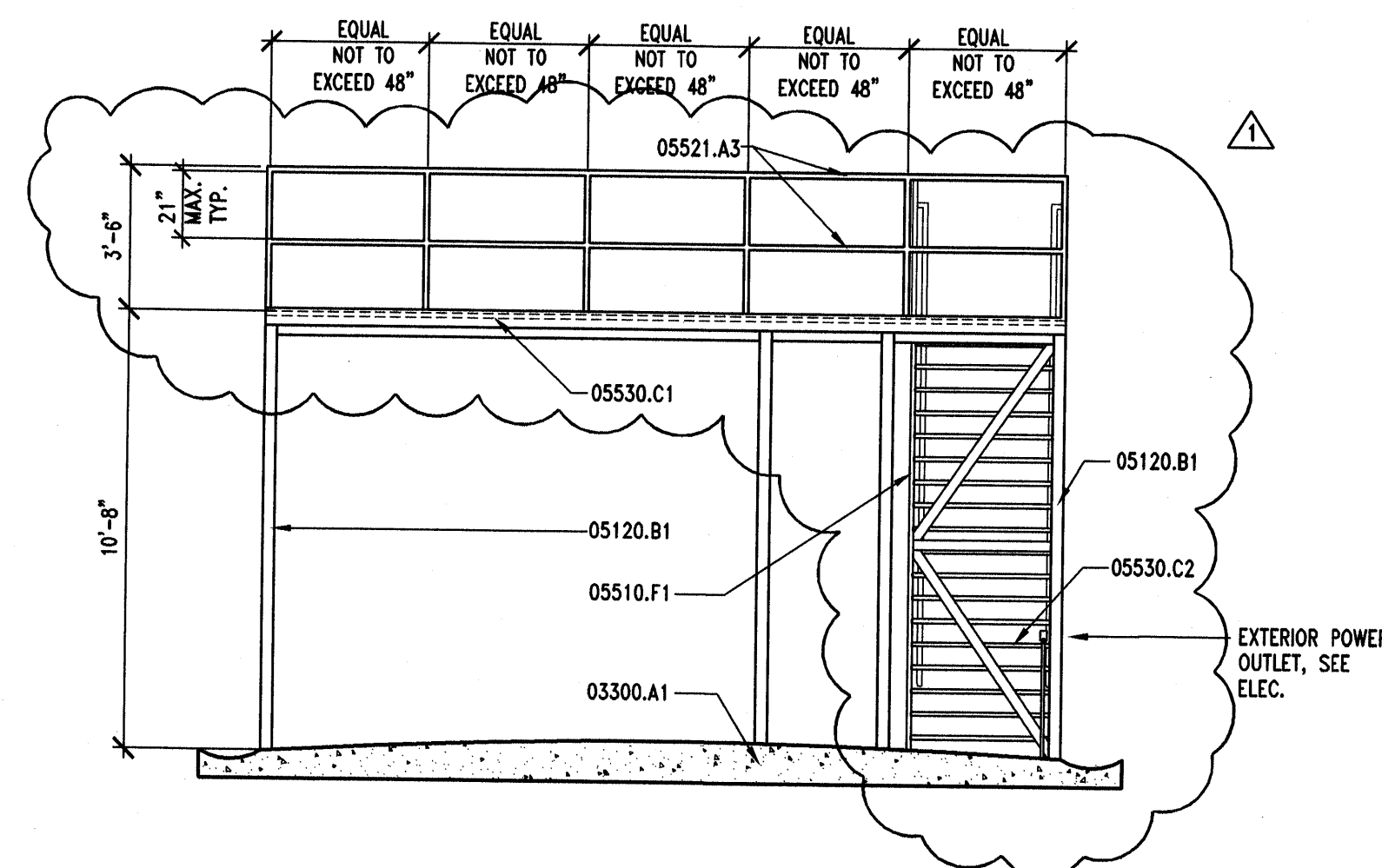
### KEY PLAN

SHEET TITLE

## SITE STRUCTURES

WASH RACK PLAN,  
SECTION & ELEVS.

AE703







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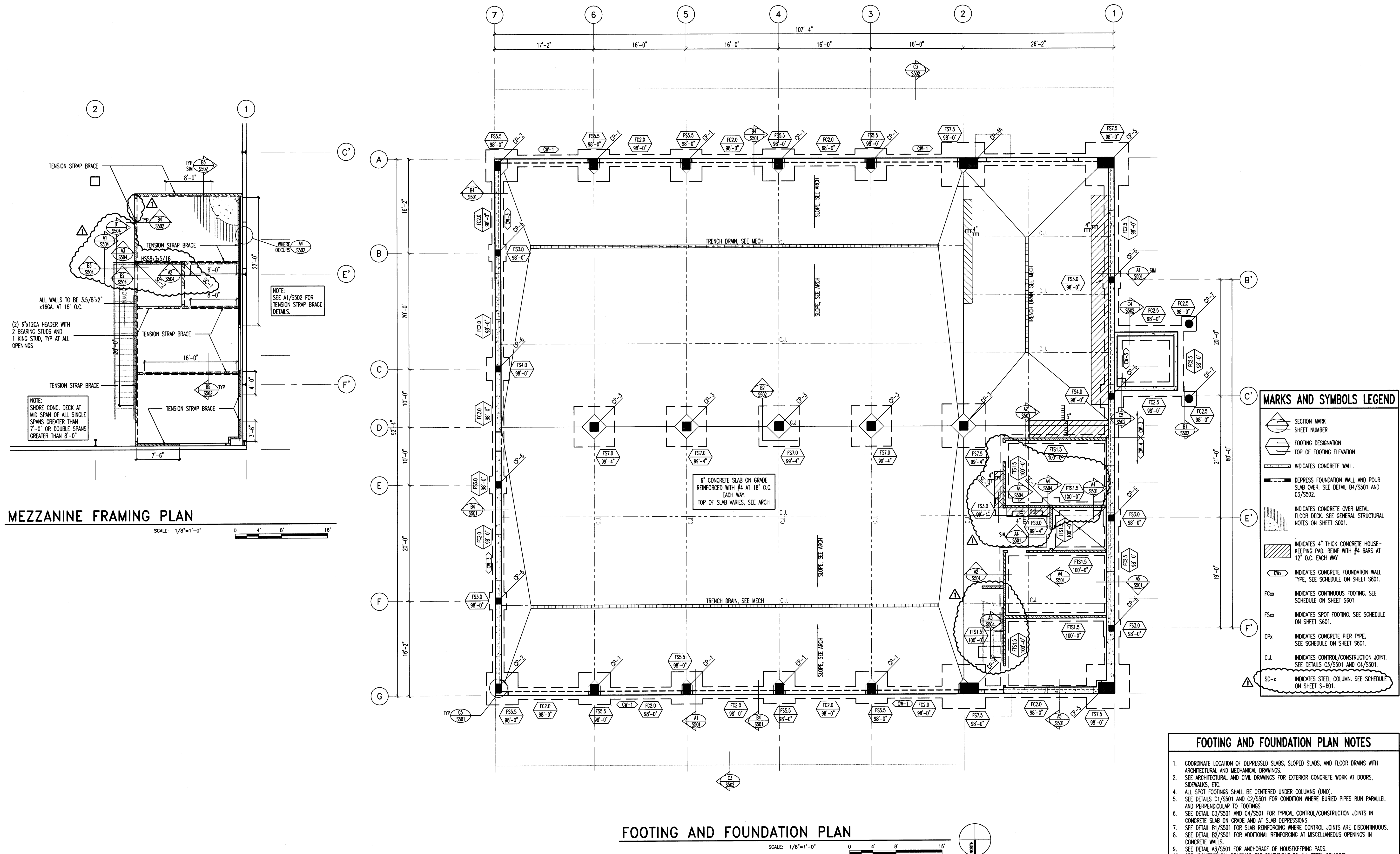
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	12/08/06	CONSTRUCTION DOCUMENTS
	8/28/06	95% DESIGN SUBMITTAL
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MARK	DATE	DESCRIPTION

DFCM CONTRACT NO:	067477
DFCM PROJECT NO:	06034900
BHB PROJECT NO:	06162
DRAWN BY:	C. BROWN
CHECKED BY:	G. MCKENZIE
SCALE:	AS SHOWN
DATE:	DECEMBER 8, 2006

FOOTING  
AND  
FOUNDATION  
PLAN

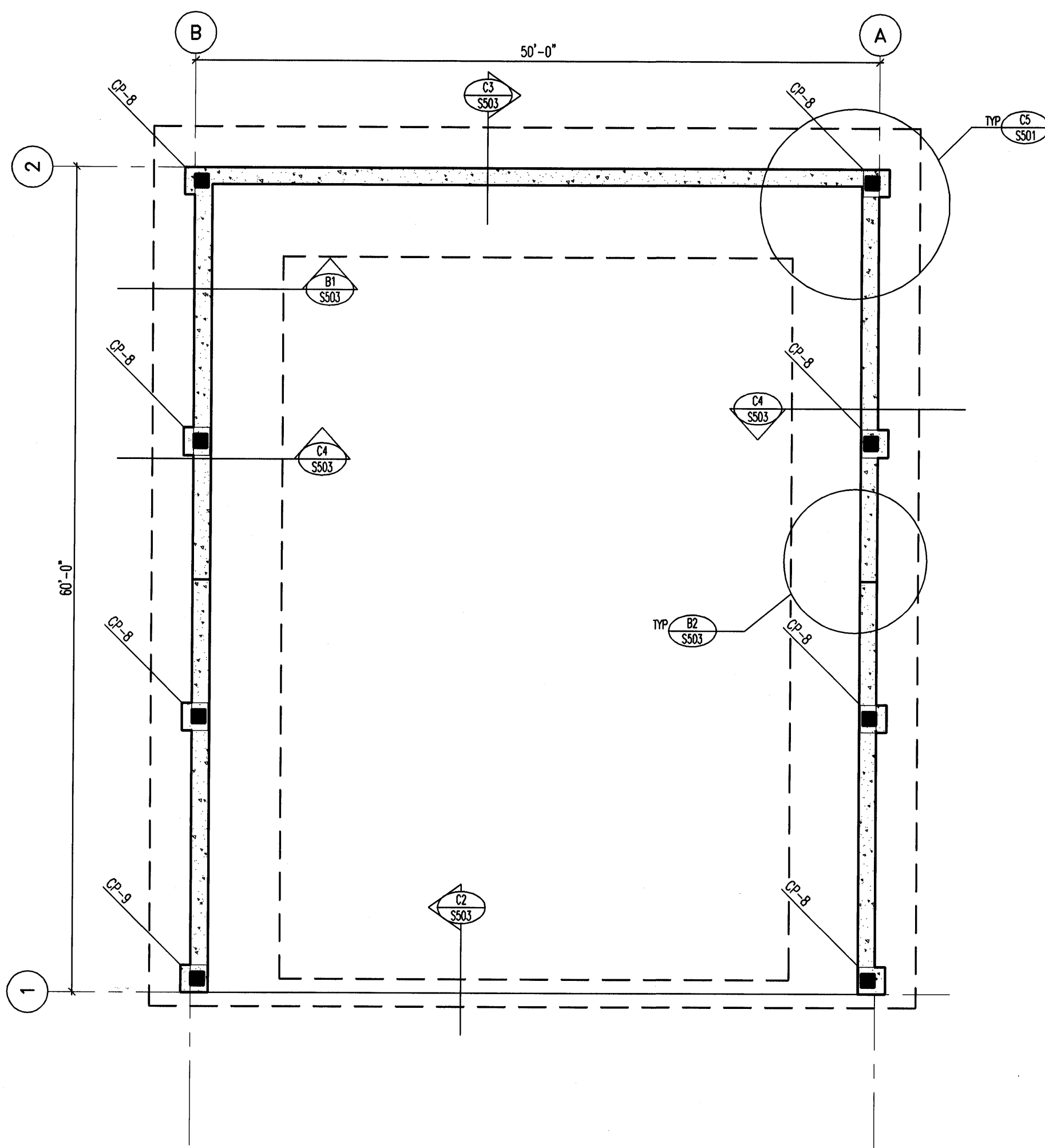
S101

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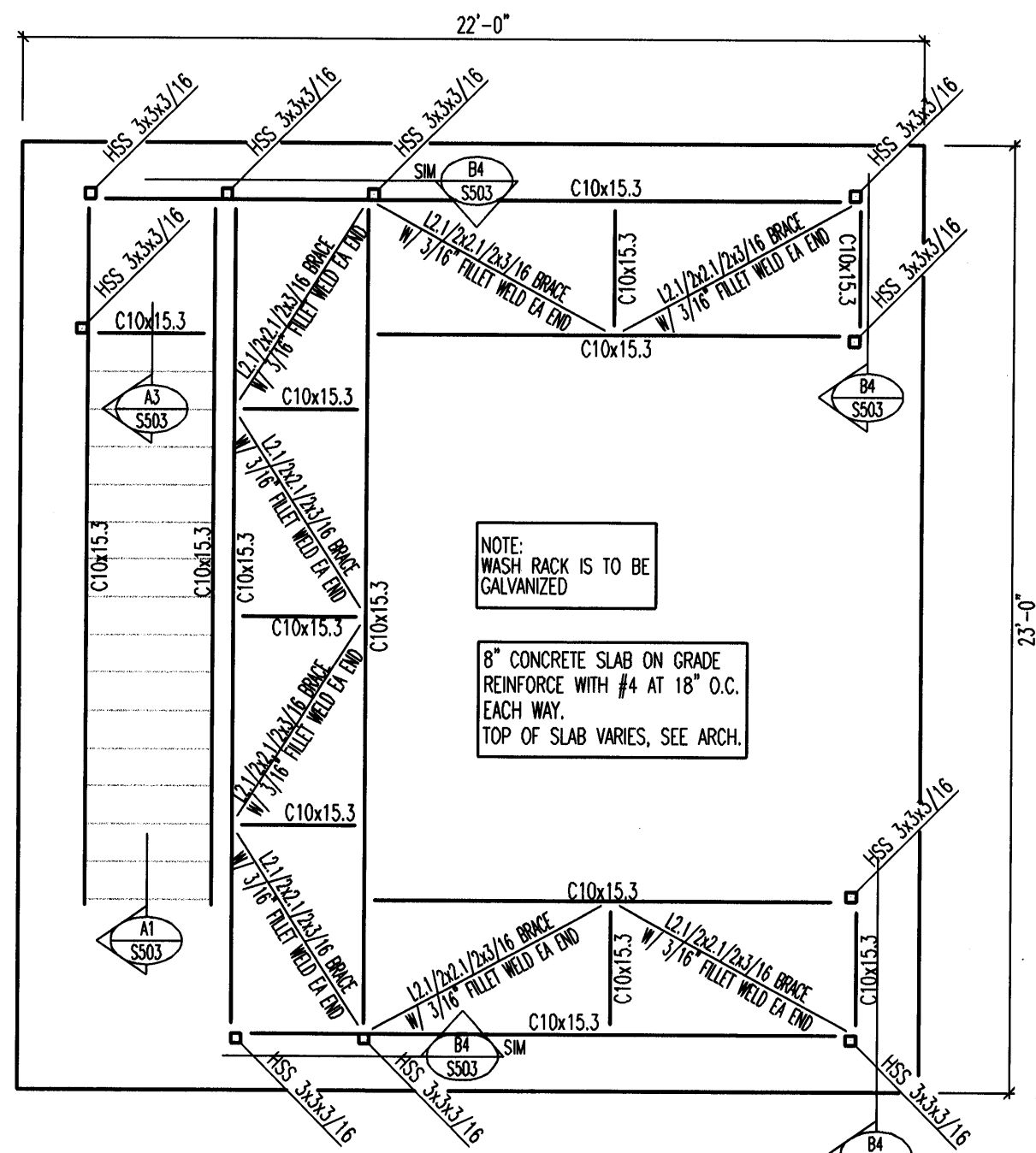
1. COORDINATE LOCATION OF DERESSED SLABS, SLOPED SLABS, AND FLOOR DRAINS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. SEE ARCHITECTURAL AND CUD DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS, ETC.
3. ALL SPOT DETAILS SHALL BE CENTERED UNDER COLUMNS (LINING).
4. SEE DETAILS C3/S501 AND C2/S501 FOR CONDITION WHERE BURIED PIPES RUN PARALLEL AND PERPENDICULAR TO FOOTINGS.
5. SEE DETAILS C3/S501 AND C4/S501 FOR TYPICAL CONTROL/CONSTRUCTION JOINTS IN CONCRETE SLAB ON GRADE AND AT SLAB DEPRESSIONS.
6. SEE DETAIL B1/S501 FOR SLAB REINFORCING WHERE CONTROL JOINTS ARE DISCONTINUOUS.
7. SEE DETAIL B2/S501 FOR ADDITIONAL REINFORCING AT MISCELLANEOUS OPENINGS IN CONCRETE WALLS.
8. SEE DETAIL A3/S501 FOR ANCHORAGE OF HOUSKEEPING PAIDS.
9. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO ALL STEEL COLUMNS.
10. FOOTING AND CONCRETE PIER SIZES SHOWN ARE AN ESTIMATE OF ACTUAL SIZES. ACTUAL SIZES WILL BE PROVIDED AND DISCREPANCY METAL BURDEN IS SELECTED. ALL BIDDERS SHALL PROVIDE UNIT PRICES FOR ADDING OR SUBTRACTING VOLUME OF CONCRETE, WEIGHT OF REINFORCING STEEL AND VOLUME OF EARTHWORK.





SALT STORAGE BLD FOOTING AND FOUNDATION PLAN

SCALE: 1/8"=1'-0"



WASH RACK PLAN

SCALE: 1/4"=1'-0"

# MARKS AND SYMBOLS LEGEND

- SECTION MARK  
SHEET NUMBER
- FOOTING DESIGNATION  
TOP OF FOOTING ELEVATION
- INDICATES CONCRETE WALL.
- DEPRESS FOUNDATION WALL AND POUR  
SLAB OVER. SEE DETAIL B4/S501 AND  
C3/S502.
- INDICATES CONCRETE OVER METAL  
FLOOR DECK. SEE GENERAL STRUCTURAL  
NOTES ON SHEET S501.
- INDICATES 4" THICK CONCRETE HOUSE-  
KEEPING PAD. REINF WITH #4 BARS AT  
12" O.C. EACH WAY.
- INDICATES CONCRETE FOUNDATION WALL  
TYPE, SEE SCHEDULE ON SHEET S601.
- INDICATES CONTINUOUS FOOTING. SEE  
SCHEDULE ON SHEET S601.
- INDICATES SPOT FOOTING. SEE SCHEDULE  
ON SHEET S601.
- INDICATES CONCRETE PIER TYPE,  
SEE SCHEDULE ON SHEET S601.
- INDICATES CONTROL/CONSTRUCTION JOINT.  
SEE DETAILS C3/S501 AND C4/S501.

## FOOTING AND FOUNDATION PLAN NOTES

- COORDINATE LOCATION OF DEPRESSED SLABS, SLOPED SLABS, AND FLOOR DRAINS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
- SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS, ETC.
- ALL SPOT FOOTINGS SHALL BE CENTERED UNDER COLUMNS (UNO).
- SEE DETAILS C1/S501 AND C2/S501 FOR CONDITION WHERE BURIED PIPES RUN PARALLEL AND PERPENDICULAR TO FOOTINGS.
- SEE DETAIL C3/S501 AND C4/S501 FOR TYPICAL CONTROL/CONSTRUCTION JOINTS IN CONCRETE SLAB ON GRADE AND AT SLAB DEPRESSIONS.
- SEE DETAIL B1/S501 FOR SLAB REINFORCING WHERE CONTROL JOINTS ARE DISCONTINUOUS.
- SEE DETAIL B2/S501 FOR ADDITIONAL REINFORCING AT MISCELLANEOUS OPENINGS IN CONCRETE WALLS.
- SEE DETAIL A3/S501 FOR ANCHORAGE OF HOUSEKEEPING PADS.
- SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO ALL STEEL COLUMNS.
- FOOTING AND CONCRETE PIER SIZES SHOWN ARE AN ESTIMATE OF ACTUAL SIZES. ACTUAL SIZES WILL BE PROVIDED AFTER PREFABRICATED METAL BUILDER IS SELECTED. ALL BIDDERS SHALL PROVIDE UNIT PRICES FOR ADDING OR SUBTRACTING VOLUME OF CONCRETE, WEIGHT OF REINFORCING STEEL AND VOLUME OF EARTHWORK.

### CLIENT

CLEARFIELD  
MAINTENANCE  
FACILITY  
STATION #1424  
2001 EAST 700 SOUTH  
CLEARFIELD, UTAH 84015

### DESIGNER

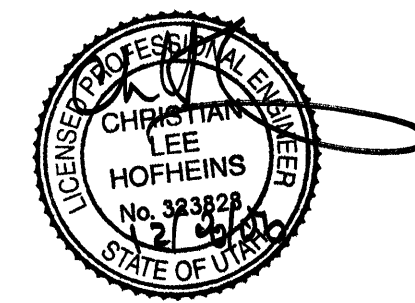
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### ISSUE

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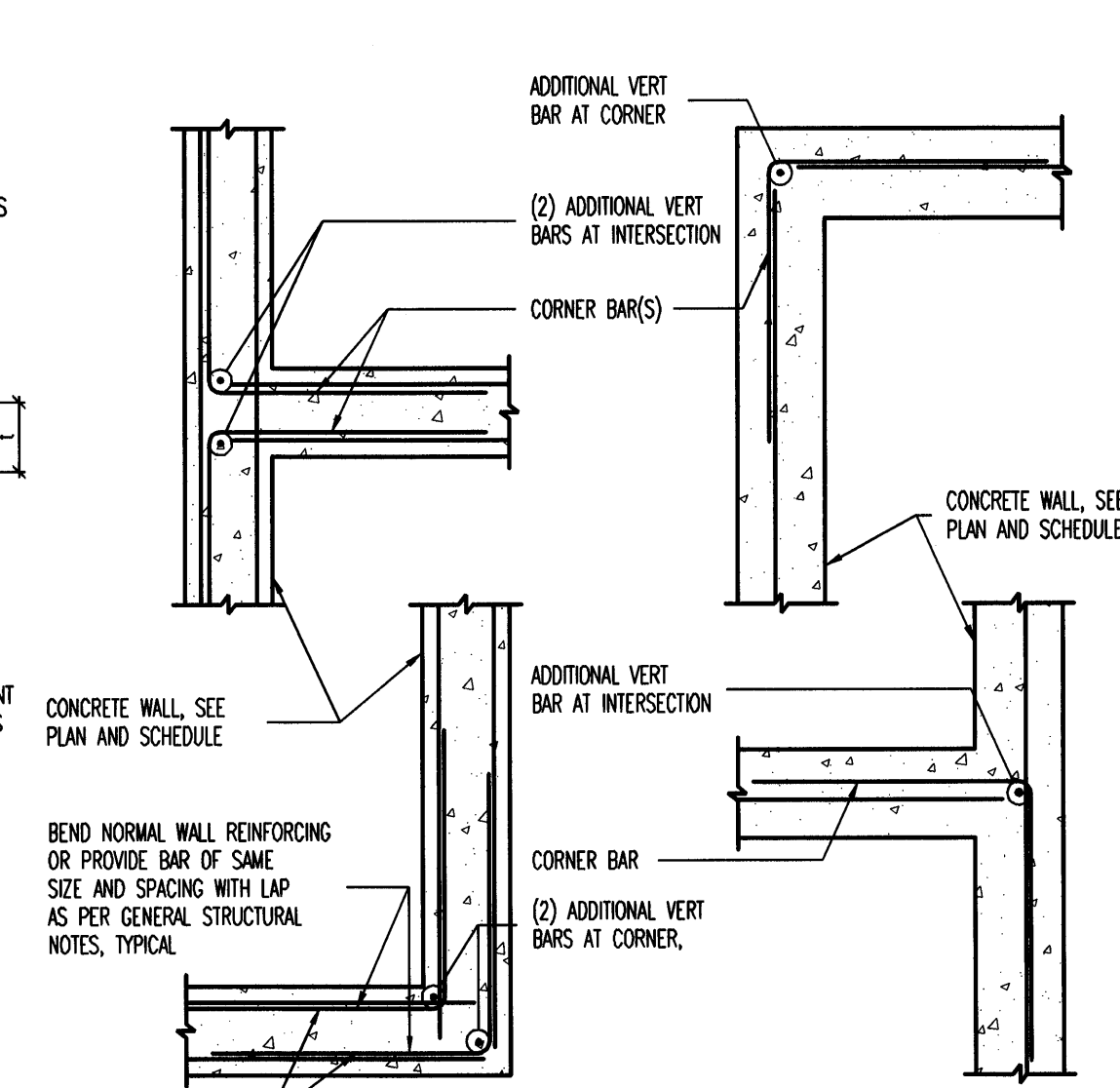
DFCM CONTRACT NO:	067477
DFCM PROJECT NO:	06034900
BHB PROJECT NO:	06162
DRAWN BY:	C. BROWN
CHECKED BY:	G. MCKENZIE
SCALE:	AS SHOWN
DATE:	DECEMBER 8, 2006

### KEY PLAN

### SHEET TITLE

FOOTING  
AND  
FOUNDATION  
PLAN

S102



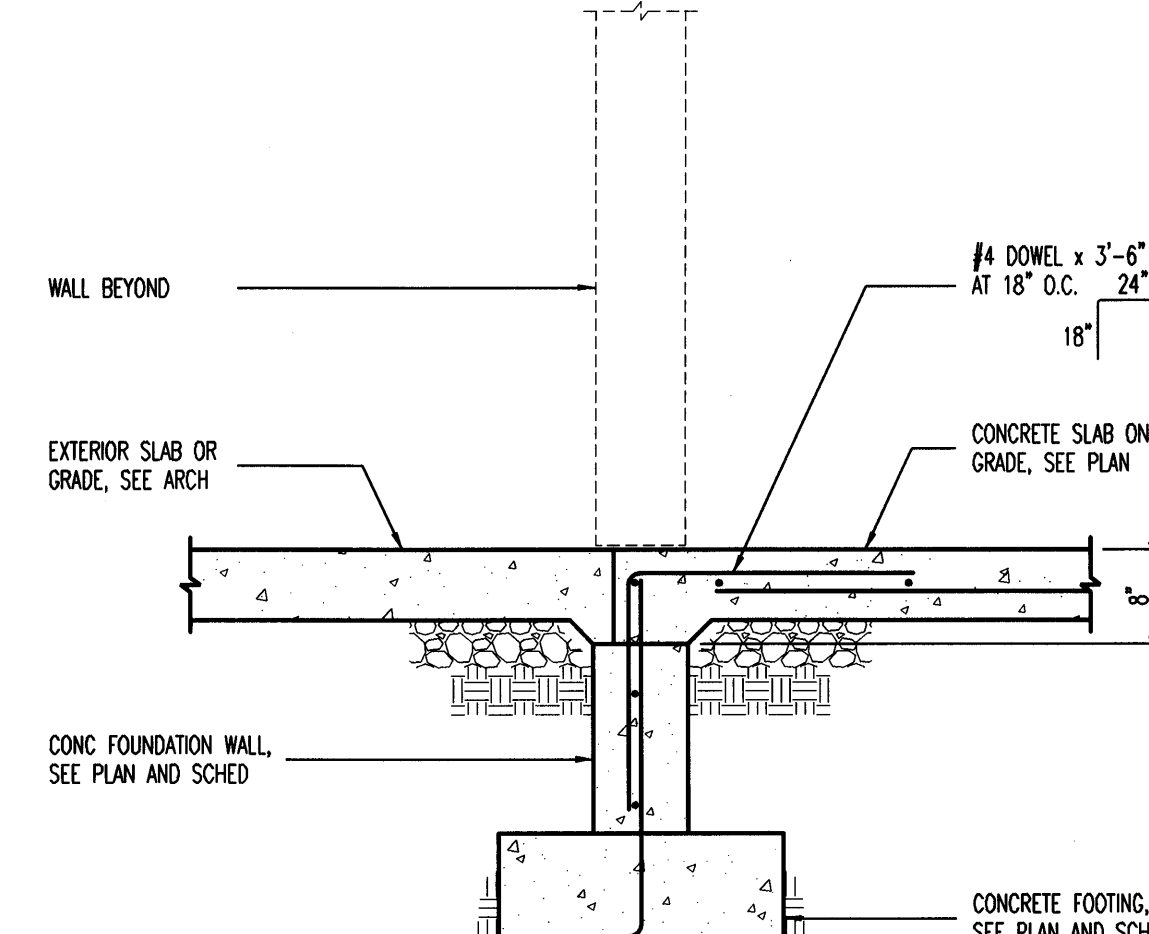
**C1** CONDITION AT PIPE PARALLEL TO CONCRETE FOOTING NO SCALE

**C2 CONDITIONS AT PIPE PERPENDICULAR TO FOOTING** NO SCALE

**C3** TYPICAL SLAB ON GRADE JOINT DETAILS

**C4 JOINT DETAILS AT SLAB DEPRESSIONS** NO SCALE

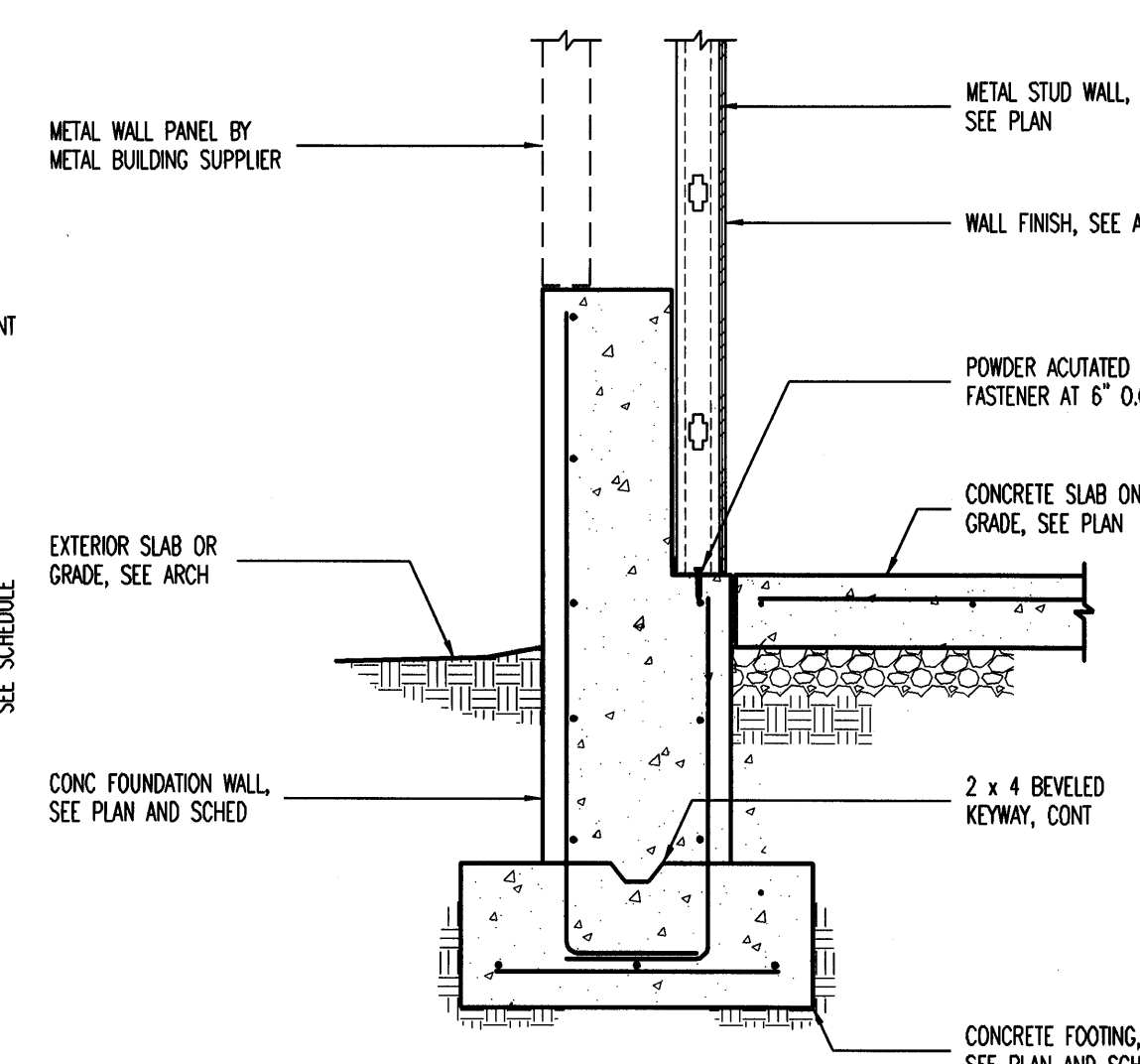
**(C5) TYPICAL CORNER WALL REINFORCING AT CONCRETE WALL**  
[PLAN VIEW] NO. 5



**LOCATIONS REQUIRING ADDITIONAL SLAB REINFORCING**  
**PLAN VIEW**

**B2** TYPICAL REINFORCING FOR MISCELLANEOUS OPENINGS LESS THAN 3'-0" IN CONCRETE WALLS  
WHERE MISCELLANEOUS OPENING WIDTH IS GREATER THAN 3'-0" WIDE, CONTACT STRUCTURAL ENGINEER.

**B4 FOUNDATION WALL DETAIL**



**A1 STEEL COLUMN BEARING AT CONCRETE PIER/FOOTING**

**A2 THICKENED SLAB FOOTING AT INTERIOR STUD WALL**

**A3 TYPICAL HOUSEKEEPING PAD**

**A4 RECESSED SLAB AT THICKENED SLAB FOOTING**

**A5 METAL STUD WALL AT FOOTING**

CLIENT

# CLEARFIELD MAINTENANCE FACILITY

STATION #1424  
2001 EAST 700 SOUTH  
CLEARFIELD, UTAH 84015

DESIGNER

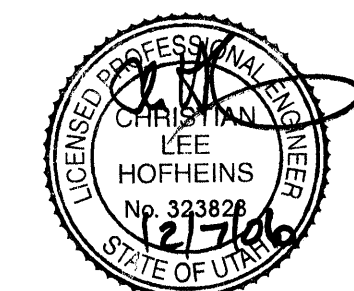
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## ISSUE

	12/08/06	CONSTRUCTION DOCUMENTS
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MARK	DATE	DESCRIPTION

DFCM CONTRACT NO:	0674777
DFCM PROJECT NO:	060349000
BHB PROJECT NO:	061622
DRAWN BY:	C. BROWN
CHECKED BY:	G. McKENZIE
SCALE:	AS SHOWN
DATE:	DECEMBER 8, 2006

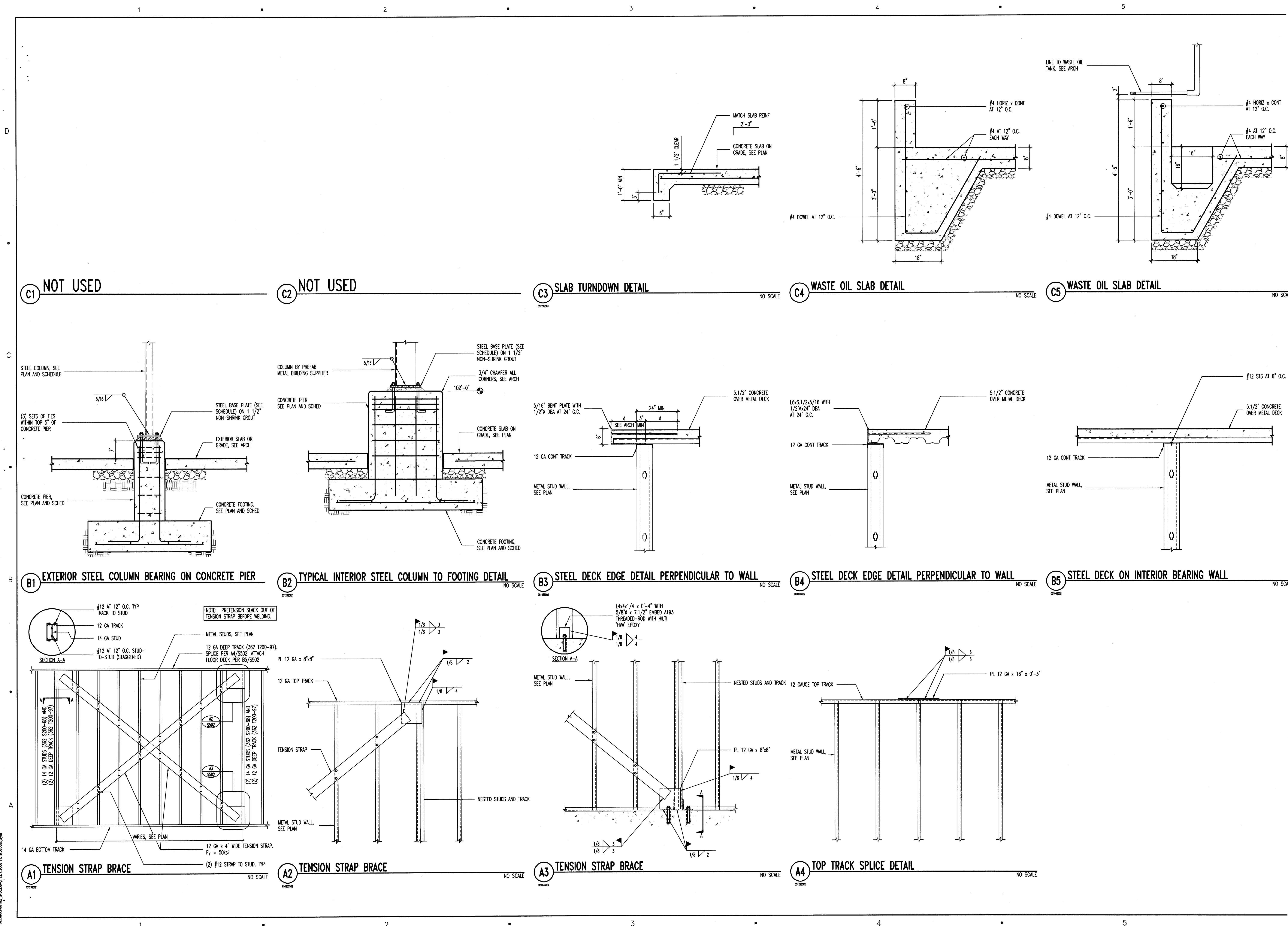
### KEY PLAN

SHEET TITLE

## FOOTING AND FOUNDATION DETAILS

**S501**





CLIENT

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CLEARFIELD, UTAH 84015

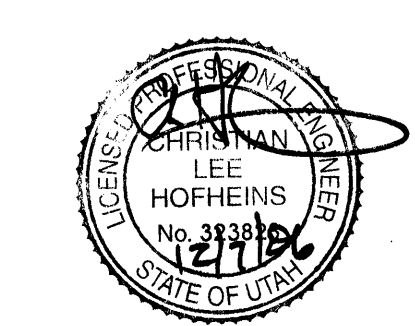
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SCALE: AS SHOWN  
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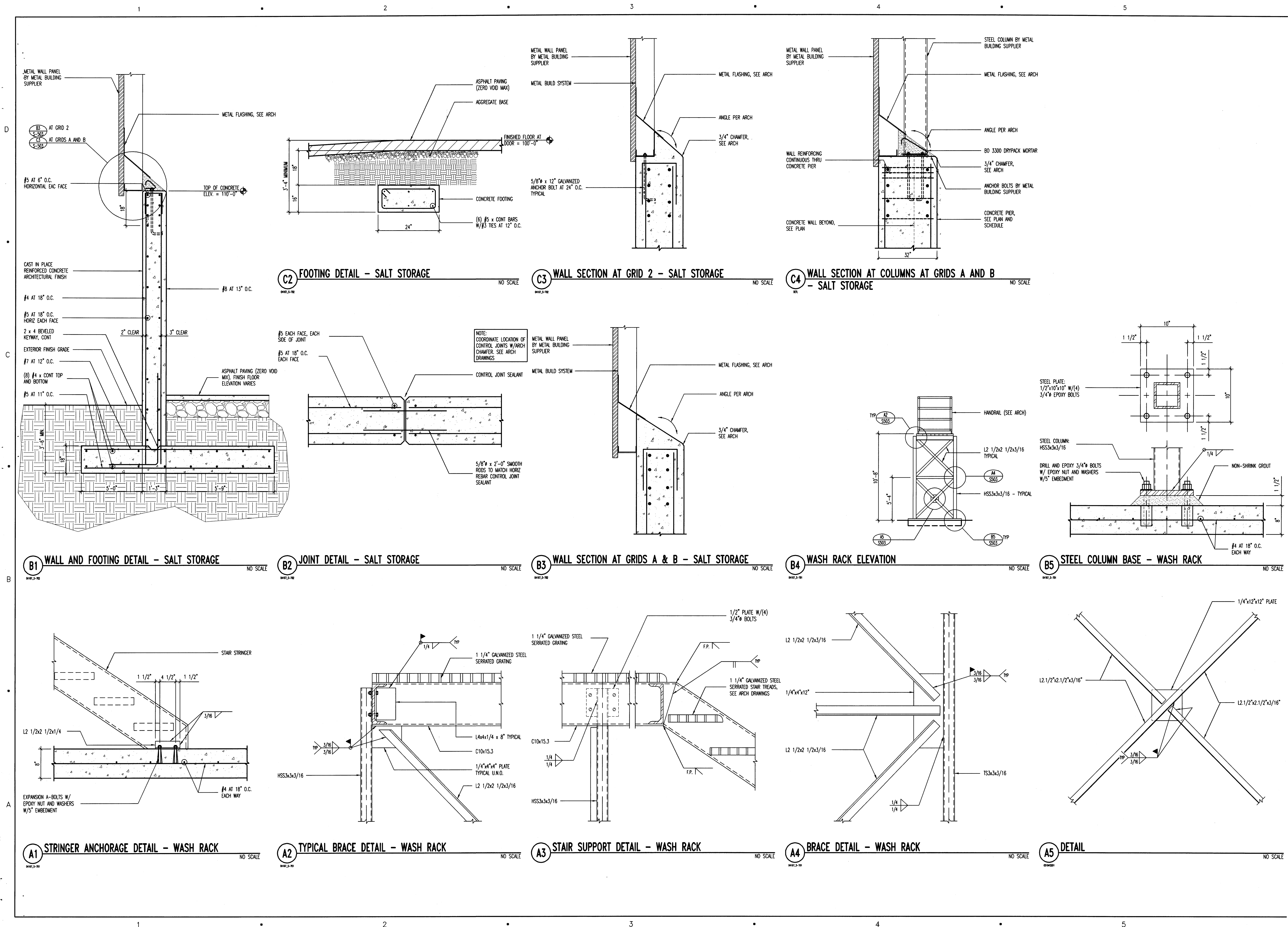
KEY PLAN

SHEET TITLE

FOOTING  
AND  
FOUNDATION  
DETAILS

S502

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CLIENT

## CLEARFIELD MAINTENANCE

STATION #1424  
001 EAST 700 SOUTH  
EARFIELD, UTAH 84015

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## CONSULTANTS



PROFESSIONAL SEAL



SSUE

	12/08/06	CONSTRUCTION DOCUMENTS
	8/28/06	95% DESIGN SUBMITTAL
	07/17/06	60% DESIGN SUBMITTAL
MARK	DATE	DESCRIPTION

OF CM CONTRACT NO:	067477
OF CM PROJECT NO:	06034900
HB PROJECT NO:	06162
DRAWN BY:	C. BROWN
CHECKED BY:	G. McKENZIE
SCALE:	AS SHOWN
DATE:	DECEMBER 8, 2006

## KEY PLAN

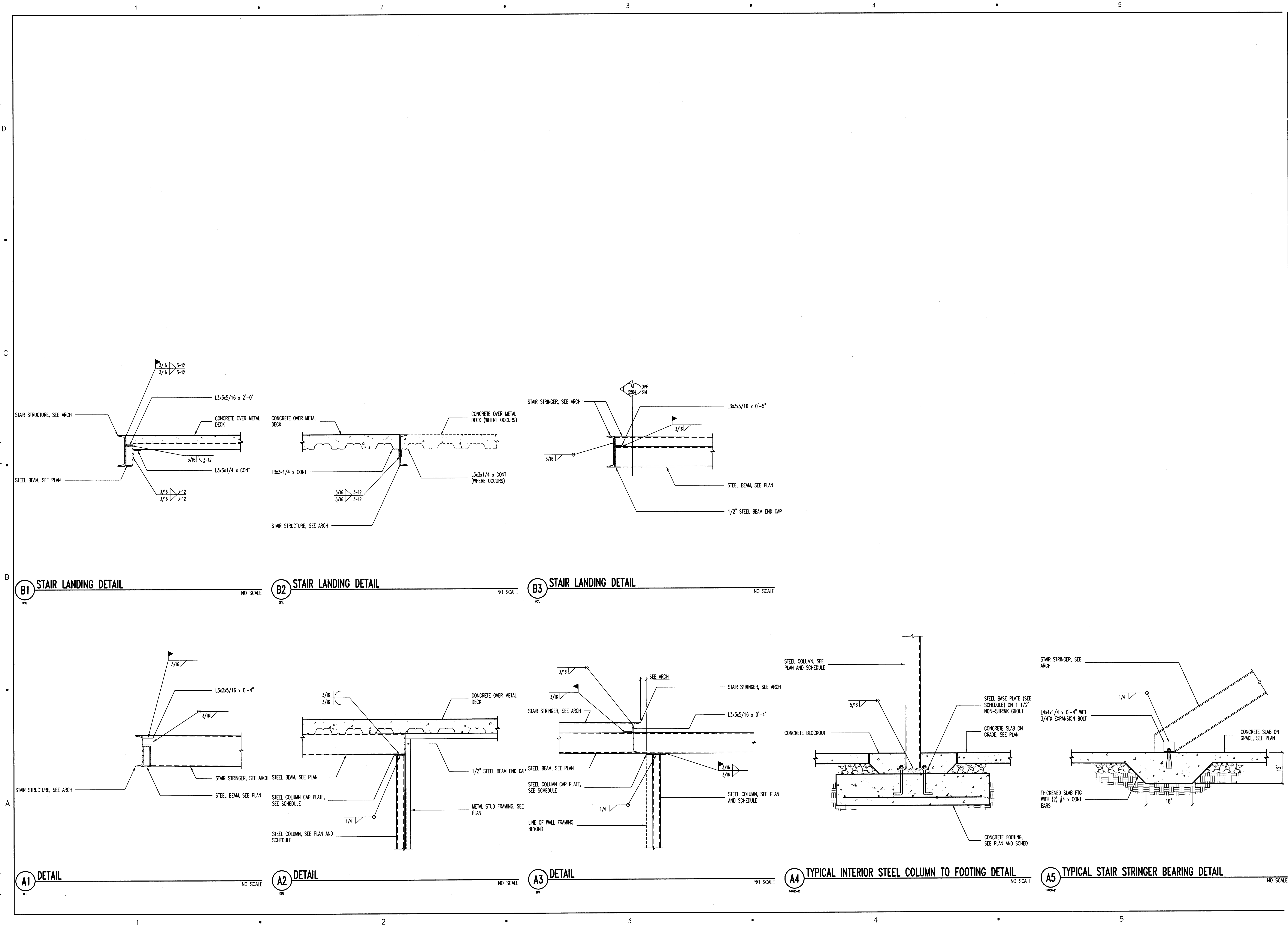
SHEET TITLE

## FOOTING AND FOUNDATION DETAILS

**S503**

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CLIENT

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MAINTENANCE  
FACILITY  
STATION #1424  
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CLEARFIELD, UTAH 84015

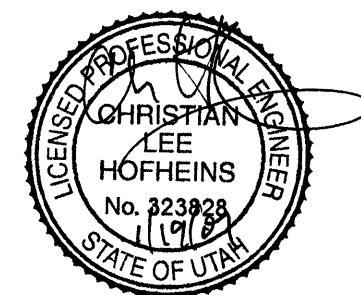
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PROFESSIONAL SEAL



ISSUE

1/15/07	DFCM REVIEW COMMENTS
12/08/06	CONSTRUCTION DOCUMENTS
8/28/06	95% DESIGN SUBMITTAL
07/17/06	60% DESIGN SUBMITTAL

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DRAWN BY:	C. BROWN
CHECKED BY:	G. MCKENZIE
SCALE:	AS SHOWN
DATE:	DECEMBER 8, 2006

KEY PLAN

SHEET TITLE

MEZZAZINE STAIR  
DETAILS

S504

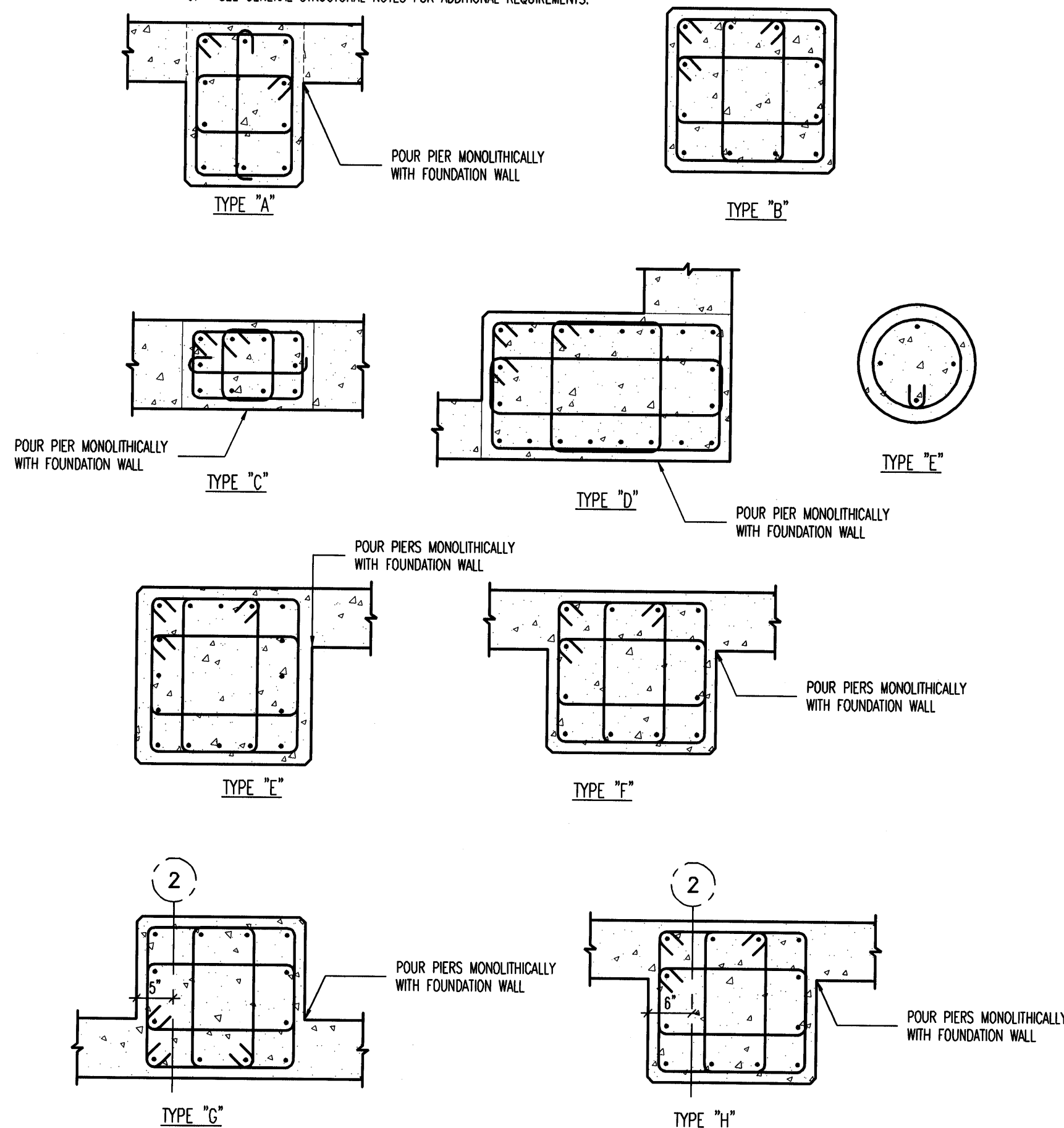
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CONCRETE FOOTING SCHEDULE												
MARK	WIDTH	LENGTH	DEPTH	REINFORCING CROSSWISE				REINFORCING LENGTHWISE				COMMENTS
				No.	SIZE	LENGTH	SPACING	No.	SIZE	LENGTH	SPACING	
FTS1.5	1'-6"	CONT	12"	-	-	-	-	2	#4	CONT	EQ	THICKENED SLAB
FC2.0	2'-0"	CONT	12"	-	-	-	-	3	#4	CONT	EQ	
FC2.5	2'-6"	CONT	12"	-	#5	2'-0"	14"	3	#5	CONT	EQ	
FS2.5	2'-6"	2'-6"	12"	3	#5	2'-0"	EQ	3	#5	2'-0"	EQ	
FS3.0	3'-0"	3'-0"	12"	3	#5	2'-6"	EQ	3	#5	2'-6"	EQ	
FS3.5	3'-6"	3'-6"	12"	3	#5	3'-0"	EQ	3	#5	3'-0"	EQ	
FS4.0	4'-0"	4'-0"	12"	4	#5	3'-6"	EQ	4	#5	3'-6"	EQ	
FS4.5	4'-6"	4'-6"	12"	4	#5	4'-0"	EQ	4	#5	4'-0"	EQ	
FS5.0	5'-0"	5'-0"	12"	5	#5	4'-6"	EQ	5	#5	4'-6"	EQ	
FS5.5	5'-6"	5'-6"	12"	5	#5	5'-0"	EQ	5	#5	5'-0"	EQ	
FS6.0	6'-0"	6'-0"	12"	6	#5	5'-6"	EQ	6	#5	5'-6"	EQ	
FS7.0	7'-0"	7'-0"	14"	8	#5	6'-6"	EQ	8	#5	6'-6"	EQ	
FS7.5	7'-6"	7'-6"	14"	8	#5	7'-0"	EQ	8	#5	7'-0"	EQ	

- CONCRETE FOOTING NOTES:
1. PLACE ALL FOOTING REINFORCING IN THE BOTTOM OF THE FOOTING WITH 3" CLEAR CONCRETE COVER (UNO).
  2. TOP REINFORCING, WHERE OCCURS, SHALL BE PLACED IN THE TOP OF THE FOOTING WITH 2" MINIMUM CONCRETE COVER.
  3. IF FOOTINGS ARE EARTH-FORMED, FOOTINGS SHALL BE 6" LONGER AND WIDER THAN SCHEDULED.
  4. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
  5. SOME SCHEDULED FOOTINGS MAY NOT BE USED, SEE FOOTING AND FOUNDATION PLAN FOR FOOTING MARKS.

CONCRETE PIER SCHEDULE					
MARK	PIER SIZE	REINFORCING		TYPE	COMMENTS
		VERTICAL	TIES		
CP-1	12" x 22"	(10) #5 BARS	(3) #3 AT 8" O.C.	A	
CP-2	18" x 12"	(10) #5 BARS	(3) #3 AT 8" O.C.	C	
CP-3	18" x 18"	(12) #5 BARS	(3) #3 AT 8" O.C.	B	
CP-4	22" x 32"	(20) #5 BARS	(3) #3 AT 8" O.C.	G	
CP-4A	22" x 36"	(20) #5 BARS	(3) #3 AT 8" O.C.	H	
CP-5	20" x 34"	(20) #5 BARS	(3) #3 AT 8" O.C.	D	
CP-6	12" x 12"	(8) #5 BARS	(3) #3 AT 8" O.C.	C	
CP-7	16"9	(4) #5 BARS	#3 AT 8" O.C.	E	
CP-8	23" x 24"	(16) #6 BARS	(3) #3 AT 8" O.C.	F	
CP-9	23" x 24"	(16) #6	(3) #3 AT 8" O.C.	G	

- CONCRETE PIER NOTES:
1. INSTALL (3) SETS OF TIES AT 3" O.C. AT TOP OF ALL PIERS (UNO).
  2. RUN HORIZONTAL CONCRETE WALL REINFORCING CONTINUOUS THROUGH PIER WHEN PIER IS POURED MONOLITHICALLY WITH CONCRETE WALL.
  3. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



C2 CONCRETE PIER SCHEDULE  
NO SCALE

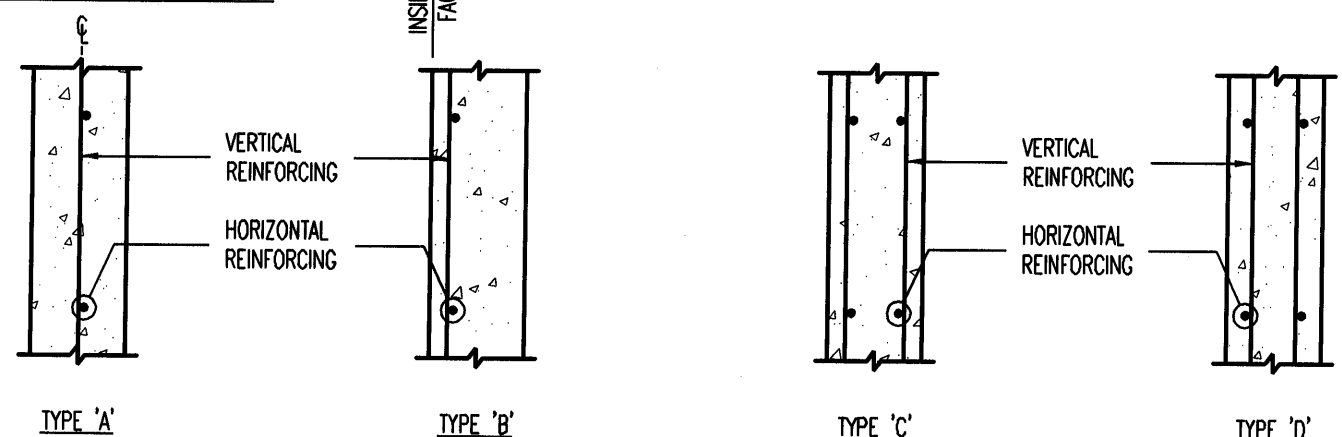
CONCRETE WALL SCHEDULE						
MARK	THICKNESS	REINFORCING			WALL TYPE	COMMENTS
		VERTICAL	HORIZONTAL	TOP AND BOTTOM		
CW-1	8"	#4 AT 18" O.C.	#4 AT 12" O.C.	(1) #4	A	
CW-2	8"	#4 AT 18" O.C.	#4 AT 12" O.C.	(1) #4	A	ABV. ELEV. 100'-0"
	16"	#4 AT 18" O.C. E.F.	#4 AT 12" O.C. E.F.	(2) #4	C	BELOW ELEV. 100'-0"
CW-3	12"	#4 AT 18" O.C. E.F.	#4 AT 12" O.C. E.F.	(2) #4	C	
CW-4	12"	#4 AT 18" O.C. E.F.	#4 AT 12" O.C. E.F.	(1) #4	A	ABV. ELEV. 100'-0"
	16"	#4 AT 18" O.C. E.F.	#4 AT 12" O.C. E.F.	(2) #4	C	BELOW ELEV. 100'-0"

- CONCRETE FOUNDATION WALL NOTES:
1. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
  2. CONCRETE FOUNDATION WALLS NOT DESIGNATED ON PLANS SHALL BE REINFORCED AS FOLLOWS:

THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
6"	#4 BARS AT 18" O.C.	#4 BARS AT 18" O.C.
8"	#4 BARS AT 18" O.C.	#4 BARS AT 12" O.C.
10"	#4 BARS AT 18" O.C.	#5 BARS AT 15" O.C.
12"	#4 BARS AT 18" O.C. E.F.	#4 BARS AT 16" O.C. E.F.

ABBREVIATIONS:  
E.F. EACH FACE  
I.F. INSIDE FACE  
O.F. OUTSIDE FACE

WALL REINFORCING PLACEMENT TYPES:



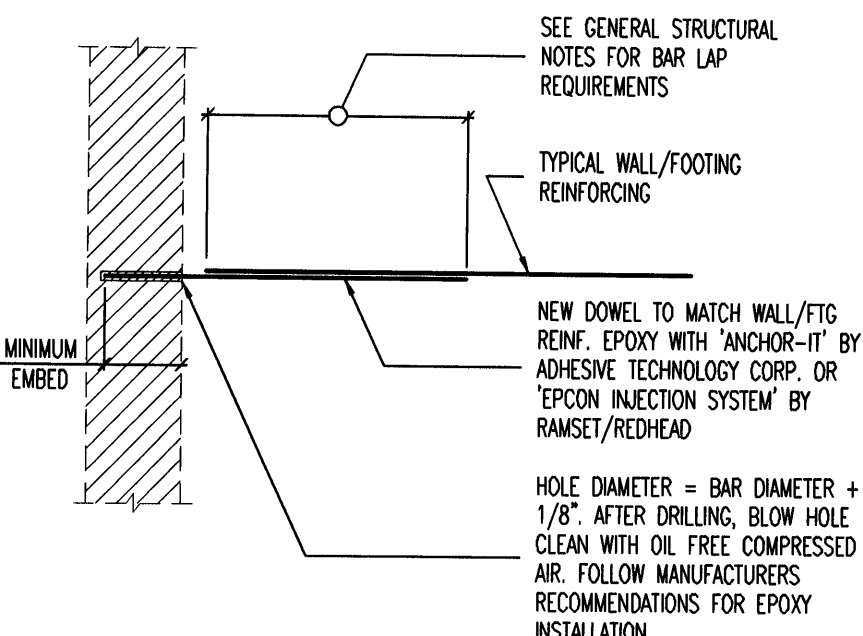
A1 CONCRETE WALL SCHEDULE  
NO SCALE

CONCRETE REINFORCING BAR LAP SPICE SCHEDULE																
BAR SIZE	f'c = 3000psi				f'c = 4000psi				f'c = 5000psi				f'c = 6000psi			
	REGULAR CLASS		TOP CLASS		REGULAR CLASS		TOP CLASS		REGULAR CLASS		TOP CLASS		REGULAR CLASS		TOP CLASS	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
#3	13"	17"	17"	21"	12"	16"	16"	21"	12"	16"	16"	21"	12"	16"	16"	21"
#4	17"	22"	22"	28"	15"	19"	19"	25"	13"	17"	17"	22"	12"	16"	16"	21"
#5	21"	27"	27"	35"	18"	24"	24"	31"	16"	21"	21"	27"	15"	19"	19"	25"
#6	27"	36"	36"	46"	24"	31"	31"	40"	21"	28"	28"	36"	20"	25"	25"	33"
#7	37"	48"	48"	63"	32"	42"	42"	54"	29"	38"	38"	49"	27"	34"	34"	44"
#8	49"	64"	64"	82"	42"	55"	55"	71"	38"	49"	49"	64"	35"	45"	45"	58"
#9	62"	80"	80"	104"	54"	70"	70"	90"	48"	62"	62"	81"	44"	57"	57"	74"
#10	78"	102"	102"	132"	68"	88"	88"	115"	61"	79"	79"	102"	56"	72"	72"	94"
#11	96"	125"	125"	162"	83"	108"	108"	141"	76"	97"	97"	126"	68"	88"	88"	115"

- CONCRETE REINFORCING BAR LAP SPICE NOTES:
1. THIS SCHEDULE SHALL BE USED FOR ALL BAR SPLICES IN CONCRETE WALLS, UNLESS NOTED OTHERWISE.
  2. CLASS 'A' SPLICES MAY BE USED ONLY IN CASES WHERE 50% OR LESS OF THE BARS ARE SPLICED WITHIN THE LAP SPICE LENGTH.
  3. CLASS 'B' SPLICES SHALL BE USED FOR ALL SPLICES UNLESS THE REQUIREMENTS OF NOTE NO. 2 ABOVE ARE MET.
  4. TIES AND STIRRUPS SHALL NOT BE SPLICED.
  5. SPLICES FOR BUNDLED BARS:
    - a. FOR BUNDLED BARS OF THREE OR LESS, LAP SPICE LENGTHS SHALL BE MULTIPLIED BY 1.2.
    - b. FOR BUNDLED BARS OF FOUR OR MORE, LAP SPICE LENGTHS SHALL BE MULTIPLIED BY 1.33.
    - c. INDIVIDUAL BAR SPLICES WITHIN A BUNDLE SHALL NOT OVERLAP.
    - d. ENTIRE BUNDLES SHALL NOT BE LAP SPLICED.
  6. FOR ALL LIGHTWEIGHT CONCRETE, LAP LENGTHS SHALL BE MULTIPLIED BY 1.3.
  7. FOR ALL EPOXY COATED BARS, LAP LENGTHS SHALL BE MULTIPLIED BY 1.3 FOR TOP BARS AND 1.5 FOR REGULAR BARS.
  8. TOP BARS ARE CLASSIFIED AS HORIZONTAL BARS WHERE 12" OR MORE OF FRESH CONCRETE IS CAST BELOW THE REINFORCING BAR.
  9. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

A2 CONCRETE REINFORCING BAR LAP SPICE SCHEDULE  
NO SCALE

EPOXY DOWEL EMBED SCHEDULE	
DOWEL SIZE	MINIMUM EMBEDMENT INTO EXISTING CONCRETE
#4	6 1/2"
#5	7 1/2"
#6	10"
#7	1'-1"
#8	1'-4"



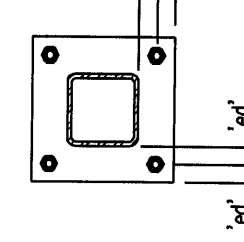
C4 EPOXY DOWEL EMBED SCHEDULE  
NO SCALE

STEEL COLUMN SCHEDULE				
MARK	SIZE	STEEL BASE PLATE	STEEL CAP PLATE	COMMENTS
SC-1	HSS3x3x1/4	1/2" (SBP-1)	1/2" (SCP-2)	
SC-2	HSS3x3x1/4	1/2" (SBP-1)	1/2" (SCP-1)	

- STEEL COLUMN NOTES:
1. UNLESS NOTED OTHERWISE, ALL COLUMNS SHALL BE INSTALLED WITH (4) 3/4" ANCHOR BOLTS WITH 3" MINIMUM HOOKS. PROJECT ANCHOR BOLTS 3" MINIMUM ABOVE THE TOP OF THE BASE PLATE. EMBEDMENT SHALL BE 9" MINIMUM. ALL BOLTS SHALL BE INSTALLED WITH HARDENED WASHERS BENEATH THE NUT. ANY BOLT HOLES LARGER THAN THE BOLT DIAMETER PLUS 5/16" SHALL HAVE 5/16" PLATE WASHERS INSTALLED BENEATH THE HARDENED WASHERS.
  2. ALL CAP PLATE BOLTS SHALL BE 3/4" A325M BOLTS, TYPICAL UNLESS NOTED OTHERWISE.
  3. ANCHOR BOLTS SHALL NOT BE WELDED (INCLUDING TACK WELDS).
  4. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

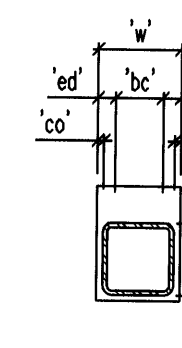
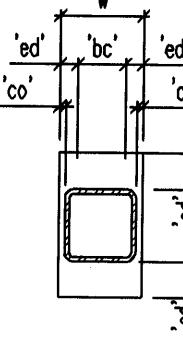
STEEL BASE PLATE TYPES:

BASE PLATE LEGEND  
co = 1/2" MINIMUM  
ed = 1 1/2" MINIMUM  
bc = 3" MINIMUM



STEEL CAP PLATE TYPES:

CAP PLATE LEGEND  
co = 1/2" MINIMUM  
ed = 1 1/2" MINIMUM  
bc = BEAM OR GIRDER GAGE + 3"  
OR  
BEAM OR GIRDER WIDTH + 1"  
OR  
COLUMN WIDTH + 1"  
WHICHEVER IS GREATER



A3 STEEL COLUMN SCHEDULE  
NO SCALE

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DESIGNER

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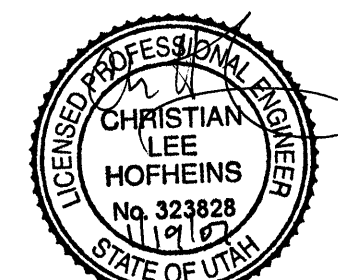
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KEY PLAN

SHEET TITLE

STRUCTURAL  
SCHEDULES

S601



MECHANICAL LEGEND (NOT ALL USED)	
RETURN OR EXHAUST DUCT DOWN	
RETURN OR EXHAUST DUCT UP	
SUPPLY AIR DUCT DOWN	
SUPPLY AIR DUCT UP	
SPIN-IN FITTING W/MVD	
FLEXIBLE DUCT	
CEILING SLOT DIFFUSER	
CEILING DIFFUSER	
CEILING EXHAUST GRILLE	
CEILING GRILLE	
ACCESS PANEL	
MANUAL VOLUME DAMPER	
MOTORIZED DAMPER	
FIRE DAMPER	
COMBINATION FIRE/SMOKE DAMPER	
THERMOSTAT OR TEMP SENSOR	
POINT OF CONNECTION TO EXISTING	
DETAIL TAG	
KEYED NOTE	
SECTION CUT LINE	
CONTROL TRANSFORMER	

#### GENERAL NOTES:

- COORDINATE ALL AIR DEVICE LOCATIONS WITH REFLECTED CEILING PLANS AND ELECTRICAL DRAWINGS.
- ALL DUCTWORK SHALL RECEIVE 1" - 1.5 LBS/CU.FT. DUCT LINER, ATTACH TO DUCT WITH MECHANICAL FASTENERS AND TRIM AND SEAL JOINTS. LOW PRESSURE ROUND FLEXIBLE DUCT TO BE 1-1/2" THICK INSULATED AND A MAXIMUM OF 6 FT. LONG. ALL INSULATION TO MEET NFPA 90 PER UL 181-CLASS 1. NO DUCTBOARD ALLOWED.
- ALL DUCTWORK IS TO BE LINED OR WRAPPED IF ROUND. NO DUCTBOARD IS ALLOWED.
- DUCTWORK AND PIPE ROUTING AS SHOWN ON DRAWINGS IS DIAGRAMMATIC AND IS NOT TO BE SCALED. WHERE ALTERNATE ROUTING, OFFSETS AND TRANSITIONS ARE REQUIRED FOR COORDINATION OF WORK, THIS CONTRACTOR SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS.
- THIS CONTRACTOR SHALL CLOSELY COORDINATE NEW MECHANICAL WITH NEW ELECTRICAL, ARCHITECTURAL AND BUILDING STRUCTURE.
- THIS CONTRACTOR SHALL FIELD VERIFY ALL MECHANICAL ITEMS PRIOR TO STARTING NEW WORK. ADDITIONAL COST WILL NOT BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH SITE CONDITIONS.
- THIS CONTRACTOR SHALL USE SMACNA DUCT CONSTRUCTION STANDARDS FOR SHEET METAL DUCTS. ALL DUCTWORK (UNLESS OTHERWISE NOTED ON FLOOR PLANS) SHALL BE CONSTRUCTED OF 1" W.C. SEAL CLASS "B".
- ALL MECHANICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT ADOPTED EDITION OF THE BUILDING CODES, FIRE CODES, MECHANICAL CODES AND PLUMBING CODES.
- THIS CONTRACTOR SHALL PROVIDE SUBMITTALS ON ITEMS LISTED IN MECHANICAL EQUIPMENT LIST TO THE ENGINEER FOR REVIEW PRIOR TO THE ORDER, PURCHASE OR INSTALLATION.
- ALL DIFFUSERS MUST BE BALANCED TO THE VALUES INDICATED ON THE FLOOR PLANS. PROVIDE BALANCE REPORT TO ENGINEER PRIOR TO PROJECT CLOSEOUT.
- DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS.
- NOT USED
- EACH TRADE IS RESPONSIBLE THEIR OWN FIRE CAULKING.
- HOUSEKEEPING PADS FOR ALL EQUIPMENT IS PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.
- ALL RETURN AIR GRILLES SHALL HAVE SOUND BOOTS W/ LINED INSULATION. INSULATION IS TO BE PAINTED FLAT BLACK.
- DIVISION 15 TO SUBMIT TO ENGINEER ALL AS-BUILTS OF BUILDINGS MECHANICAL AND PLUMBING SYSTEMS PRIOR TO JOB COMPLETION AND FINAL PAYMENT.

AIR DEVICE SCHEDULE										GRILLE NUMBER	GRILLE CFM
PLAN CODE	TYPE & DUTY	NECK SIZE	CEILING TYPE	N.C. LEVEL MAX	SP	MAX. CFM	DAMPER	COLOR	MANUFACTURER & MODEL NO.	REMARKS	
1	4-WAY SUPPLY	6"ø	SEE PLANS	20	0.05	176	IN DUCT	WHITE	PRICE #SCDA	① ③ ④	
2	4-WAY SUPPLY	8"ø	SEE PLANS	20	0.05	280	IN DUCT	WHITE	PRICE #SCDA	② ③ ④	
3	4-WAY SUPPLY	10"ø	SEE PLANS	21	0.05	436	IN DUCT	WHITE	PRICE #SCDA	② ③ ④	
4	RETURN	12" X 12"	SEE PLANS	15	0.06	630	OBD	WHITE	PRICE #800		
5	TRANSFER GRILLE	12" X 12"	SEE PLANS	15	0.06	N.A.	N.A.	WHITE	PRICE #800		

① 12" X 12" FACE MODULE    ② 24" X 24" FACE MODULE    ③ 3 CONCENTRIC CONES    ④ SET FOR HORIZONTAL DISCHARGE

EXHAUST FAN SCHEDULE													
SYMBOL	NO. REQ'D	LOCATION	CFM	TOTAL SP	LB'S	SONES	ROOF OR WALL OPENING	MOTOR					COMMENTS
								HP	ø	CYCLES	VOLTS	RPM	
EF-1	AS SHOWN	RESTROOM	120	0.15	22	1.7	8/10	50 WATTS	1	60	120	1200	COOK #GC-240 ④ ⑤ ⑥
EF-2	AS SHOWN	VEHICLE SVC BAY	13200	0.25"	645	18.4	61" SQ.	2.0	3	60	208	321	COOK #54XLP ① ② ③ ⑦ ⑧ ⑨

- ① PROVIDE INSULATED HOUSING AROUND MOTOR    ② CONTROL WITH CARBON MONOXIDE DETECTOR THROUGH ON/AUTO SWITCH    ③ INNER LOCK LOUVER MOTOR WITH FAN MOTOR    ④ CEILING GRILLE    ⑤ COOK WCA-2 WALL CAP AND DAMPER    ⑥ CONTROL WITH MOTION DETECTOR    ⑦ OUTLET LOUVER. SEE NOTE 10 ON DWG. M201  
⑧ MOTORIZED DAMPER. INTERLOCK DAMPER WITH FAN MOTOR    ⑨ SAFETY INLET SCREEN

CONDENSING UNIT SCHEDULE										REMARKS	
CODE	MFR. & MODEL NO.	SEN. MBH	AMB. TEMP.	SEER	SUCTION TEMP.	FLA	MCA	MOP	VOLTAGE/ PHASE		
CU-1	TRANE #2TTB2042A100	31	95	13	45	18.8	23	40	208/1	① ② ③ ⑤ ⑥ ⑦ ⑧ ⑨	

- ① PROVIDE WITH FUSED DISCONNECT    ② CONNECT TO EVAPORATOR COIL IN F-1    ③ ANTI-SHORT CYCLE    ④ NOT USED  
⑤ PROGRAMMABLE THERMOSTAT    ⑥ HIGH/LOW PRESSURE SWITCH    ⑦ FACTORY INSTALLED ACCUMULATOR    ⑧ NOMINAL 3.5 TON UNIT  
⑨ CONDENSER, EVAPORATOR AND FURNACE BY SAME MANUFACTURER

FURNACE SCHEDULE													
SYMBOL	INPUT BTU	OUTPUT BTU ②	CFM	EXT S.P.	FAN SPEED	FILTER		MOTOR				MANUFACTURER AND MODEL NO.	COMMENTS
						NO.	SIZE	HP	#	CYCLES	VOLT	DRIVE	
F-1	100,000	93,000	1400	0.5	1100 RPM	1	24"x25"x1"	3/4	60	1	115	DIRECT	TRANE #TUX100C9600 ① ③ ④ ⑥ ⑦ ⑧

- ① AFUE - 93    ② AT ELEVATION    ③ R-22    ④ PROVIDE W/TXCD50C4HPD EVAPORATOR    ⑤ PROPANE GAS KIT    ⑥ CONCENTRIC VENT KIT  
⑦ CONDENSER, EVAPORATOR AND FURNACE BY SAME MANUFACTURER    ⑧ NATURAL GAS

GAS-FIRED RADIANT HEATERS												
SYMBOL	LOCATION	INPUT BTU	WEIGHT	CONFIG	MOTOR				FLUE SIZE	MAKE AND MODEL NUMBER	COMMENTS	
					AMPS	VOLTS	#	CYCLES				
B-1	AS SHOWN	100,000	35	SEE PLANS	1.0 RUN	120	1	60	4"ø	ROBERTS GORDON CO-RAY-VAC #B-10	①②③④⑥	

- ① ROBERTS GORDON #EP-200 VACUUM PUMP, 3/4HP, 120 VOLT    ② PROVIDE FRESH AIR INTAKE    ③ 7-DAY PROGRAMMABLE THERMOSTAT  
④ HEAT TREATED ALUMIZED STEEL TUBE AND POLISHED ALUMINUM REFLECTOR    ⑤ PROPANE GAS    ⑥ NATURAL GAS

CLIENT

## CLEARFIELD MAINTENANCE FACILITY

STATION #1424  
2001 EAST 700 SOUTH  
CLEARFIELD, UTAH 84015

DESIGNER

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ISSUE

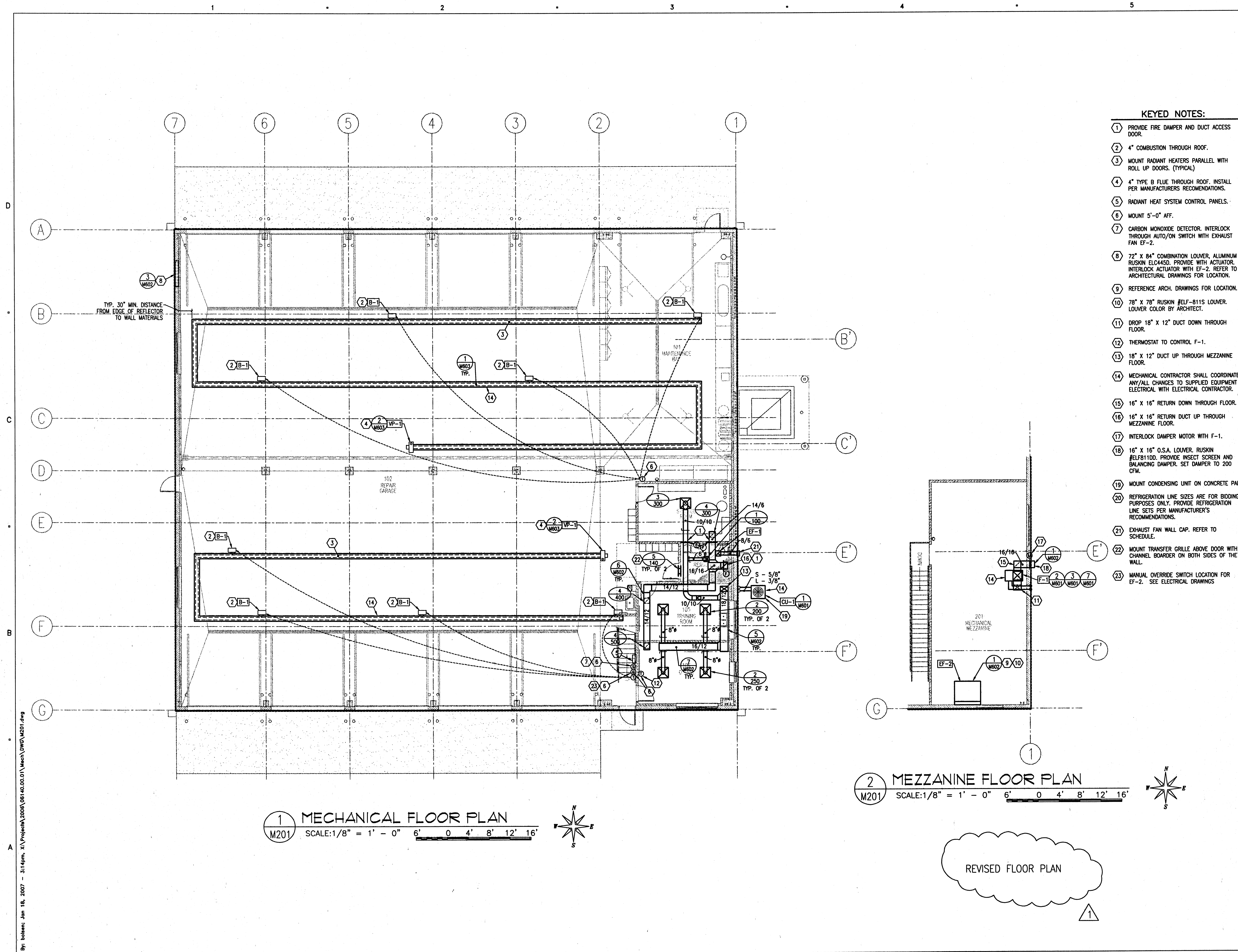
MARK	DATE	DESCRIPTION
	12/08/06	CONSTRUCTION DOCUMENTS
	08/28/06	95% DESIGN SUBMITTAL
	07/17/06	60% DESIGN SUBMITTAL

DFCM CONTRACT NO:	067477
DFCM PROJECT NO:	06034900
ARCHIPEX PROJECT NO:	0609.01
DRAWN BY:	B.W.
CHECKED BY:	A.D.S.
SCALE:	
DATE:	DECEMBER 8, 2006
KEY PLAN	

SHEET TITLE

## MECHANICAL SCHEDULE SHEET

M001



- KEYED NOTES:**
- ① PROVIDE FIRE DAMPER AND DUCT ACCESS DOOR.
  - ② 4" COMBUSTION THROUGH ROOF.
  - ③ MOUNT RADIANT HEATERS PARALLEL WITH ROLL UP DOORS. (TYPICAL)
  - ④ 4" TYPE B FLUE THROUGH ROOF. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
  - ⑤ RADIANT HEAT SYSTEM CONTROL PANELS.
  - ⑥ MOUNT 5'-0" AFF.
  - ⑦ CARBON MONOXIDE DETECTOR. INTERLOCK THROUGH AUTO/ON SWITCH WITH EXHAUST FAN EF-2.
  - ⑧ 72" X 84" COMBINATION LOUVER, ALUMINUM RUSKIN EL04450. PROVIDE WITH ACTUATOR. INTERLOCK ACTUATOR WITH EF-2. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION.
  - ⑨ REFERENCE ARCH. DRAWINGS FOR LOCATION.
  - ⑩ 78" X 78" RUSKIN #ELF-811S LOUVER. LOUVER COLOR BY ARCHITECT.
  - ⑪ DROP 18" X 12" DUCT DOWN THROUGH FLOOR.
  - ⑫ THERMOSTAT TO CONTROL F-1.
  - ⑬ 18" X 12" DUCT UP THROUGH MEZZANINE FLOOR.
  - ⑭ MECHANICAL CONTRACTOR SHALL COORDINATE ANY/ALL CHANGES TO SUPPLIED EQUIPMENT ELECTRICAL WITH ELECTRICAL CONTRACTOR.
  - ⑮ 16" X 16" RETURN DUCT DOWN THROUGH FLOOR.
  - ⑯ 16" X 16" RETURN DUCT UP THROUGH MEZZANINE FLOOR.
  - ⑰ INTERLOCK DAMPER MOTOR WITH F-1.
  - ⑱ 16" X 16" O.S.A. LOUVER, RUSKIN #ELF8110D. PROVIDE INSECT SCREEN AND BALANCING DAMPER. SET DAMPER TO 200 CFM.
  - ⑲ MOUNT CONDENSING UNIT ON CONCRETE PAD.
  - ⑳ REFRIGERATION LINE SIZES ARE FOR BIDDING PURPOSES ONLY. PROVIDE REFRIGERATION LINE SETS PER MANUFACTURER'S RECOMMENDATIONS.
  - ㉑ EXHAUST FAN WALL CAP. REFER TO SCHEDULE.
  - ㉒ MOUNT TRANSFER GRILLE ABOVE DOOR WITH CHANNEL BOARDER ON BOTH SIDES OF THE WALL.
  - ㉓ MANUAL OVERRIDE SWITCH LOCATION FOR EF-2. SEE ELECTRICAL DRAWINGS

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MAINTENANCE  
FACILITY

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PROFESSIONAL SEAL

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ALAN D. SPENDLOVE

16854

1/18/07

ISSUE

1/15/07	DFCM REVIEW COMMENTS
12/08/06	CONSTRUCTION DOCUMENTS
08/28/06	95% DESIGN SUBMITTAL
07/17/06	60% DESIGN SUBMITTAL

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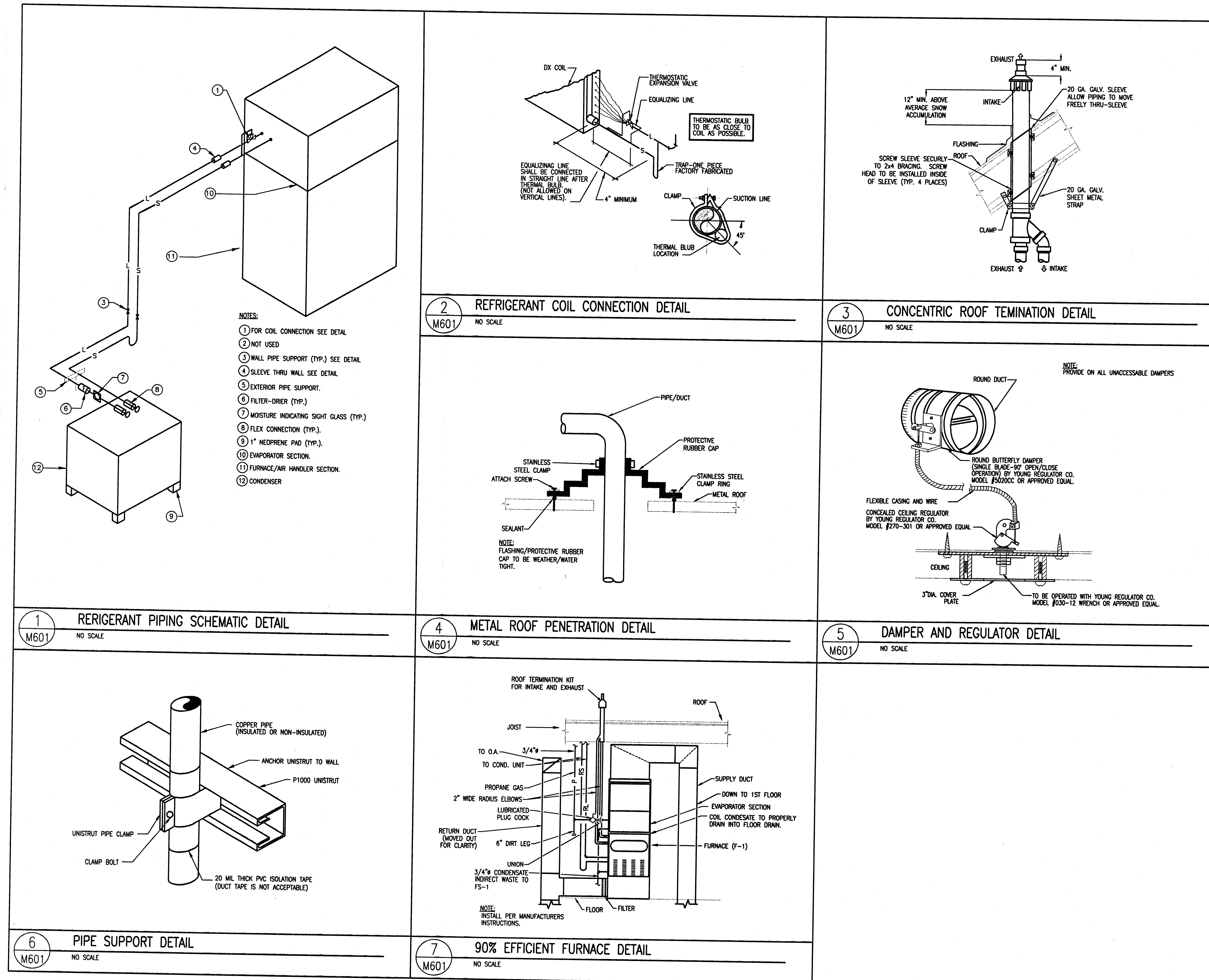
KEY PLAN

SHEET TITLE

MECHANICAL  
FLOOR PLAN

M201





CLIENT

**CLEARFIELD  
MAINTENANCE  
FACILITY**  
STATION #1424  
2001 EAST 700 SOUTH  
CLEARFIELD, UTAH 84015

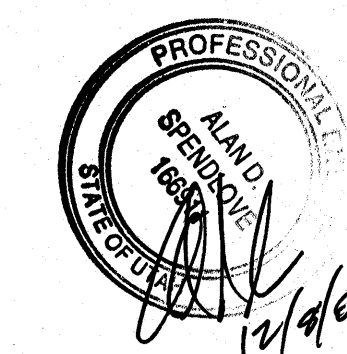
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SHEET TITLE

**MECHANICAL  
DETAIL SHEET**

**M601**

By: mjtfrays Dec 07, 2006 - 4:43pm. X:\Projects\2006\06140.00.01\Mech\DWG\M601.dwg

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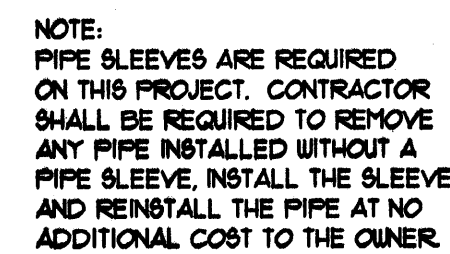
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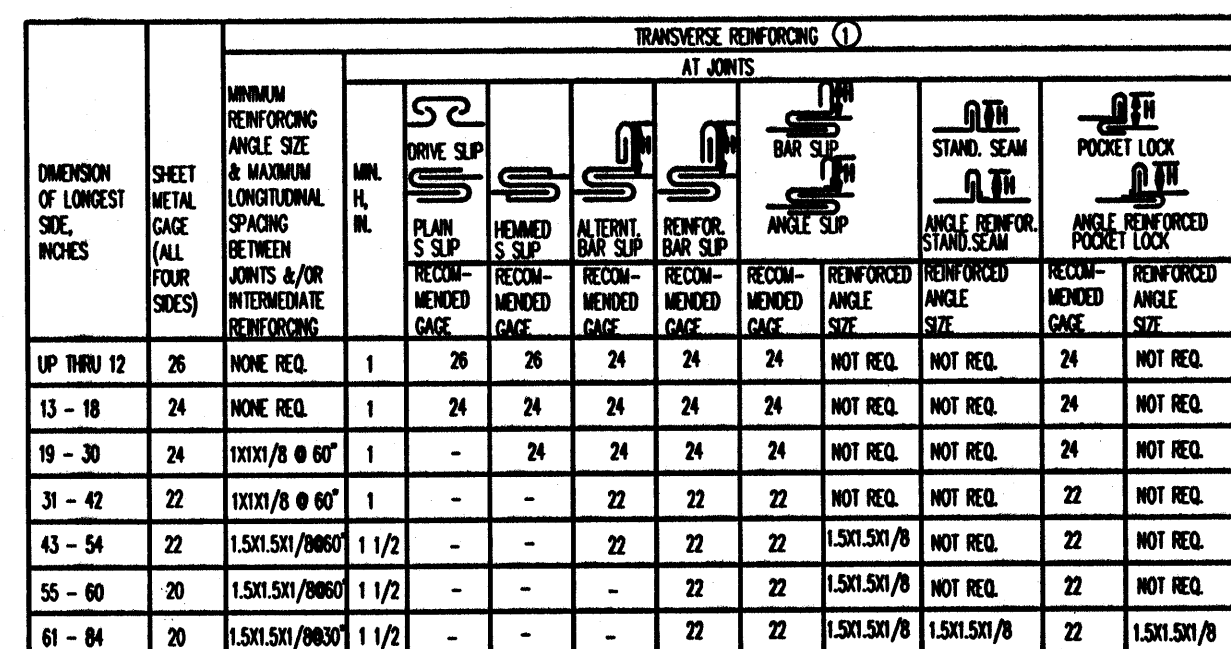
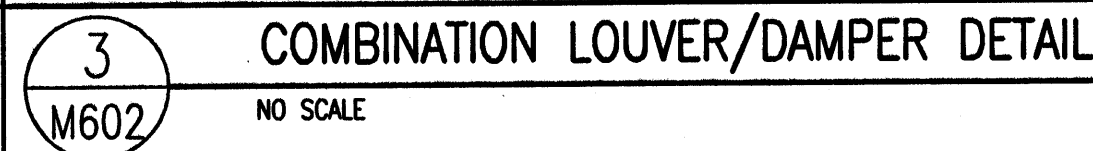
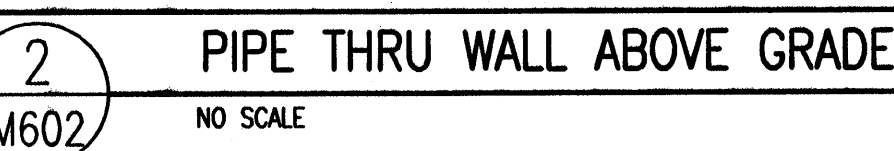
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# MECHANICAL DETAIL SHEET

# M602



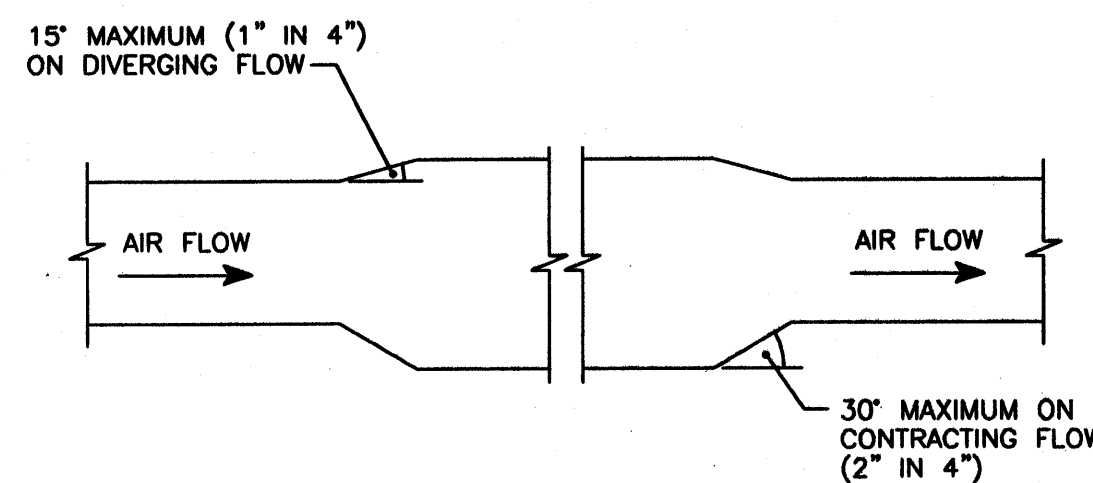
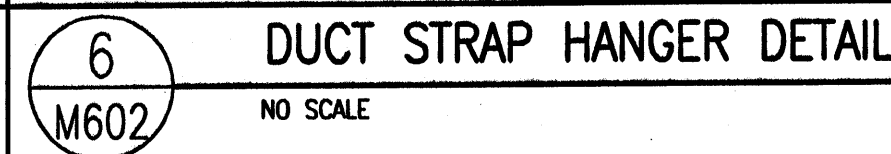
1 OUTLET / INLET LOUVER DETAIL  
M602 NO SCALE



4 INTAKE VENT PIPE DETAIL  
M602 NO SCALE

DIMENSION OF LONGEST SIDE, INCHES		SHEET METAL GAGE (ALL FOUR SIDES)	TRANSVERSE REINFORCING (1)											
			MINIMUM REINFORCING ANGLE SIZE & MAXIMUM LONGITUDINAL SPACING BETWEEN JOINTS AND/OR INTERMEDIATE REINFORCINGS	AT JOINTS								ENDS		
				WELDED LAP	DRIVE SLP	PLAN S SLP	HEADED SLP	INTERL. SLP	REINFOR. SLP	REINFOR. SLP	REINFOR. SLP	WELDED LAP	STAND. SEAM	POCKET LOOK
UP THRU 12	26	NO REQ.	1	26	26	24	24	24	24	NOT REQ.	NOT REQ.	24	NOT REQ.	
13 - 18	24	NO REQ.	1	24	24	24	24	24	24	NOT REQ.	NOT REQ.	24	NOT REQ.	
19 - 30	24	1X13/8 @ 6"	1	-	24	24	24	24	24	NOT REQ.	NOT REQ.	24	NOT REQ.	
31 - 42	22	1X13/8 @ 6"	1	-	-	22	22	22	22	NOT REQ.	NOT REQ.	22	NOT REQ.	
43 - 54	22	1.5X1.5X/8/800	1 1/2	-	-	22	22	22	1.5X1.5X/8	NOT REQ.	NOT REQ.	22	NOT REQ.	
55 - 60	20	1.5X1.5X/8/800	1 1/2	-	-	22	22	22	1.5X1.5X/8	NOT REQ.	NOT REQ.	22	NOT REQ.	
61 - 84	20	1.5X1.5X/8/800	1 1/2	-	-	22	22	22	1.5X1.5X/8	1.5X1.5X/8	22	1.5X1.5X/8		

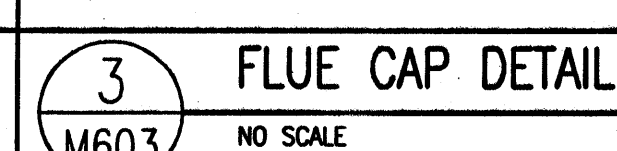
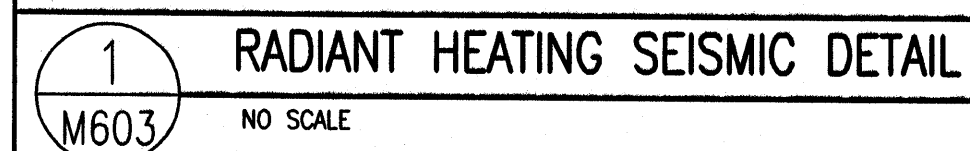
5 DUCT CONSTRUCTION DETAIL  
M602 NO SCALE



7 DUCT LINER DETAIL  
M602 NO SCALE

# 8 CONVERGING AND DIVERGING TRANSITIONS





# M603

PIPING LEGEND (NOT ALL USED)			
GATE VALVE		CHILLED WATER SUPPLY	CHS
OS & Y PATTERN GATE VALVE		CHILLED WATER RETURN	CHR
BALL VALVE		CONDENSER WATER SUPPLY	CWS
BUTTERFLY VALVE		CONDENSER WATER RETURN	CWR
MOTORIZED BUTTERFLY VALVE		HEATING WATER SUPPLY	HWS
HEAT TRACING		HEATING WATER RETURN	HWR
DEIONIZED WATER	DI	WATER TREATMENT	WT
CHECK VALVE		FIRE DEPT. HORN & LIGHT	
SOLENOID VALVE		HOT GAS	HG
AUTOMATIC CONTROL VALVE (2-WAY)		FLEXIBLE PIPE CONNECTION	
AUTOMATIC CONTROL VALVE (3-WAY)		REDUCED PRESSURE BACKFLOW PREVENTER	RBPB
PRESSURE REDUCING VALVE		DIRECTION OF FLOW	
P & T RELIEF VALVE		ELBOW DOWN (DN)	
AIR VENT (AUTOMATIC)		ELBOW UP	
REFRIGERANT LIQUID	RL	PIPE CAP	
REFRIGERANT SUCTION	RS	TEE DOWN	
THERMAL EXPANSION VALVE		UNION	
STRAINER		DOMESTIC COLD WATER	
CIRCUIT SETTER		DOMESTIC HOT WATER	
FLOW METER		HOT WATER CIRC.	
PET COCK OR GAUGE COCK		TEMPERED WATER	T
PRESSURE GAUGE W/GAUGE COCK		SANITARY (PLBG) VENT	
THERMOMETER		SANITARY SEWER ABOVE GRADE	
TEMPERATURE & PRESSURE TEST PLUG		SANITARY SEWER BELOW GRADE	
IN-LINE PUMP		DRAIN	D
FLOW SWITCH		ROOF DRAIN PIPING	RD
AQUASTAT		OVERFLOW DRAIN PIPING	OD
HOSE BIBB OR SILLCOCK		STORM DRAIN PIPING ABOVE GRADE	SD
VACUUM	V	STORM DRAIN PIPING BELOW GRADE	SD
FLOOR DRAIN		FIRE SERVICE	F
FLOOR SINK		NATURAL GAS	G
HOT GAS BYPASS	HGBP	COMPRESSED AIR	CA
WALL CLEANOUT OR CLEANOUT		VENT THROUGH ROOF	
FLOOR OR GRADE CLEANOUT		STEAM	S
GRADE CLEANOUT W/ CONCRETE PAD		CONDENSATE	C

- GENERAL NOTES:
- COORDINATE ALL AIR DEVICE LOCATIONS WITH REFLECTED CEILING PLANS AND ELECTRICAL DRAWINGS.
  - DUCTWORK AND PIPE ROUTING AS SHOWN ON DRAWINGS IS DIAGRAMMATIC AND IS NOT TO BE SCALED. WHERE ALTERNATE ROUTING, OFFSETS AND TRANSITIONS ARE REQUIRED FOR COORDINATION OF WORK, THIS CONTRACTOR SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS.
  - THIS CONTRACTOR SHALL CLOSELY COORDINATE NEW MECHANICAL WITH NEW ELECTRICAL, ARCHITECTURAL AND BUILDING STRUCTURE.
  - THIS CONTRACTOR SHALL FIELD VERIFY ALL MECHANICAL ITEMS PRIOR TO STARTING NEW WORK. ADDITIONAL COST WILL NOT BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH SITE CONDITIONS.
  - ALL MECHANICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT ADOPTED EDITION OF THE BUILDING CODES, FIRE CODES, MECHANICAL CODES AND PLUMBING CODES.
  - THIS CONTRACTOR SHALL PROVIDE SUBMITTALS ON ITEMS LISTED IN MECHANICAL EQUIPMENT LIST TO THE ENGINEER FOR REVIEW PRIOR TO THE ORDER, PURCHASE OR INSTALLATION.
  - NOT USED
  - ALL DOMESTIC COLD AND DOMESTIC HEATING WATER PIPING SHALL BE TYPE "L" COPPER. ALL WASTE AND VENT PIPING SHALL BE CAST IRON. ALL ROOF AND OVERFLOW DRAINAGE PIPING TO BE CAST IRON.
  - PROVIDE INSULATION FOR THE FOLLOWING:  
a. DOMESTIC HOT WATER PIPING:  
1" THICK FOR ALL PIPE SIZES.  
b. DOMESTIC COLD WATER PIPING:  
1/2" THICK FOR PIPE SIZES 1/2" TO 6".  
(PROVIDE CONTINUOUS VAPOR BARRIER.)
  - INSULATE PIPING WITH FIBERGLASS PIPE COVERING WITH ALL SERVICE JACKET AND SELF-CAP SEAL. FITTINGS SHALL BE WETTED PIPING COVERING OF GLASS FIBER MOLDED FITTINGS FOR USE IN A RETURN AIR PLENUM. THERMAL CONDUCTIVITY SHALL BE A MAXIMUM OF .25/INCH THICKNESS AT 75°F.
  - EACH TRADE IS RESPONSIBLE THEIR OWN FIRE CAULKING.
  - HOUSEKEEPING PADS FOR ALL EQUIPMENT IS PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.
  - DIVISION 15 TO SUBMIT TO ENGINEER ALL AS-BUILTS OF BUILDINGS MECHANICAL AND PLUMBING SYSTEMS PRIOR TO JOB COMPLETION AND FINAL PAYMENT.

PUMP SCHEDULE P-											
PLAN CODE	DUTY	GPM	FEET OF HEAD	PUMP RPM	% EFF. MIN.	% GLYCOL	MOTOR			MANUFACTURER & MODEL NO.	COMMENTS
							B.H.P.	H.P.	VOLTAGE & PHASE		
P-1	DOMESTIC WATER BOOSTER	55	50	3450	92	-	-	1-1/2	208/3	STA-RITE #HMSF-JFL	①

① AUTOMATIC PRESSURE SWITCH. TURN ON AT 30 PSI, TURN OFF AT 50 PSI.

GAS FIRED WATER HEATER SCHEDULE										
SYMBOL	MFR. CATALOG NO.	SERVICE	CAPACITY GALLONS	FUEL GAS	INPUT BTU	RECOV GPH	TANK SIZE	TEMP F IN/OUT	FLUE SIZE	REMARKS
WH-1	AMERICAN WATER HEATER #PBG102-34S100-2N	HOT WATER	34	NATURAL	100,000	126	22"	40°/140°	2"	① ② ③ ④

- ① PROVIDE WITH EXPANSION TANK. A.O. SMITH-AMTROL ST-5-2 GAL. 8"x12"H ② 94% EFFICIENCY ③ CONCENTRIC VENT KIT ④ INSTALL PER MANUFACTURER'S REQUIREMENTS

AIR COMPRESSOR [AC-]						
PLAN CODE	DUTY	ACFM @ 175 PSI	RECEIVER CAP. (GAL)	ELECTRICAL		MANUFACTURER & MODEL NO
				VOLT/PH	HP	
AC-1	SHOP AIR	24	80V	208/3	7.5	SPEEDAIR® WW GRANGER #5F565

\* START/STOP, WITH PROVISION FOR NO LOAD START. INCLUDE MAGNETIC STARTER

CIRCULATION PUMP SCHEDULE [CP-]							
PLAN CODE	DUTY	GPM	FEET OF HEAD	PUMP RPM	MOTOR H.P.	VOLTAGE & PHASE	COMMENTS
CP-1	DOMESTIC HOT WATER RECIRCULATION	1	4	3250	1/40	115	TACO #003RHP SEE HOT WATER HEATER DETAIL FOR INSTALLATION REQ.

PLUMBING FIXTURE CONNECTION SCHEDULE							
PLAN CODE	DESCRIPTION	CONNECTION SIZE					COMMENTS
		C.W.	H.W.	WASTE	VENT	TRAP	
WC-1	WATER CLOSET	1/2"	-	4"	2"	INT.	FLOOR MOUNTED TANK TYPE, CRANE - HYMONT #31055, 18 INCH RIM HEIGHT, MAXIMUM WATER USAGE OF 1.6 GALLON'S PER FLUSH. TANK TO HAVE PRESSURE ASSISTED FLUSH. SEAT - PROVIDE SPLIT FRONT TYPE WITH CHECK HINGE, BEMIS #1955C PROVIDE CHROME PLATED SUPPLY AND STOP
L-1	LAVATORY	1/2"	1/2"	1-1/2"	1-1/2"	1-1/2"	WALL MOUNTED, CRANE #1412V, HANDICAP TYPE, VITREOUS CHINA, SELF SUPPORTING FIXTURE, SIZE 24"x21", FAUCET AND DRAIN - SYMMONS S-6080 WITH DRAIN GRID, BATTERY OPERATED WITH BATTERY INSIDE BODY OF FAUCET. PROVIDE CHROME PLATED SUPPLIES AND STOPS. DEARBORN, 17 GA TUBE "P" TRAP, CHROME PLATED. FITTINGS AND TRAP TO BE INSULATED TO MEET ADA REQUIREMENTS PROVIDE MCGUIRES PROWRAP. PROVIDE WITH CARRIER.
S-1	UTILITY SINK	1/2"	1/2"	3"	1-1/2"	3"	ELKAY ESSW 2520-C, WALL MOUNTED 304 14 GAUGE STAINLESS STEEL SERVICE SINK WITH HOSE THREAD, VACUUM BREAKER, WALL BRACKET AND PAIL HOOK SPOUT AND LK173 CAST IRON P-TRAP.
U-1	URINAL	3/4"	-	2"	1-1/2"	INT.	WALL MOUNTED URINAL CRANE #7197, 1.0 GPF. VITREOUS CHINA, MOUNT 17" A.F.F. TO MEET ADA REQUIREMENTS. PROVIDE WITH SLOAN #8186 G2 OPTIMA PLUS BATTERY OPERATED FLUSHMETER, FLUSHMETER TO HAVE MANUAL OVERRIDE (URINAL SHALL FIT SPACE AVAILABLE.) PROVIDE CARRIER.
HB-1	HOSE BIBB	3/4"	-	-	-	-	SINGLE SPOUT WITH HOSE CONNECTION. PROVIDE WITH VACUUM BREAKER AND METAL HANDLE. (PLASTIC HANDLES ARE NOT ACCEPTABLE). CHICAGO MODEL NO. 293 WITH E27 VACUUM BREAKER
WH-1	WALL HYDRANT	3/4"	-	-	-	-	MADE W8600.175, NON-FREEZE WALL HYDRANT WITH NICKEL BRONZE BOX, COMPLETE WITH CHROME PLATED LOCKING COVER AND BOX WITH INTEGRAL VACUUM BREAKER. WALL HYDRANT TO BE SIZED FOR WALL THICKNESS.
FD-1	FLOOR DRAIN	-	-	3"	1-1/2"	2"	FLOOR DRAIN J.R. SMITH #2005-A, WITH NICKEL BRONZE STRAINER, TRAP PRIMER CONNECTION AND DEEP SEAL TRAP.
FD-2	FLOOR DRAIN	-	-	4"	2"	4"	SMITH #2340 NB, FLOOR DRAIN WITH SEDIMENT BUCKET, DEEP SEAL P-TRAP, AND NICKEL BRONZE TOP.
ES-1	EMERGENCY EYEWASH & SHOWER	1-1/4"	-	-	-	-	BRADLEY S19-3105BFW, FLOOR MOUNTED SAFETY STATION COMBINATION EYEWASH AND EMERGENCY SHOWER. ALUMINUM FLOOR FLANGE AND GALVANIZED INTERMEDIATE PIPE AND FITTINGS, TWO SOFT STREAM OUTLET HEADS, STAINLESS STEEL BOWL AND STAY OPEN TYPE VALVE ON EYEWASH, ORANGE CYCLOC PLASTIC SHOWER HEAD WITH STAY OPEN VALVE (OPERATED BY PULL ROD AND HANDLE), 1-1/4" IPS FEMALE INLET AND OUTLET.
S-2	DOUBLE COMPARTMENT SINK	1/2"	1/2"	2"	1-1/2"	2"	JUST #JOL-ADA-2233-A-GR, STAINLESS STEEL DOUBLE COMPARTMENT, SELF RIMMING, SIZE 22"x33" OD WITH TWO COMPARTMENTS THAT ARE 16"x14"x8" DEEP. MATERIAL - 18 GAUGE TYPE 304 STAINLESS STEEL, SEAMLESS DIE DRAWN. INTERIOR SURFACES POLISHED TO A NON-POROUS FINISH. UNDERSIDE TO BE FULLY COATED INSULATED FOR SOUND AND CONDENSATION REDUCTION. FAUCET AND DRAIN - GOOSENECK WITH SPRAY JUST JWF-201 WITH TEAR DROP HANDLES AND JB-99 DRAIN OR APPROVED EQUAL. PROVIDE WITH CHROME PLATED SUPPLY AND STOPS. DEARBORN 17 GA TUBE "P" TRAP, CHROME PLATED.
FS-1	FLOOR SINK	-	-	2"	1-1/2"	2"	FLOOR SINK J.R. SMITH #3020, COMPLETE WITH ACID RESISTANT COATED INTERIOR AND POLISHED ALUMINUM DOME BOTTOM STRAINER
TP-1	TRAP PRIMER	1/2"	-	-	-	-	TRAP PRIMER MIFAB #500 COMPLETE WITH MIFAB MI-GAP AIR GAP FITTING AND STAINLESS STEEL ACCESS DOOR.
DF-1	DRINKING FOUNTAIN	1/2"	-	2"	1-1/2"	2"	ADA COMPLIANT WATER COOLER, 12 GPH, SEMI-RECKSSEL, 115 VOLTS, 400 WATTS, 4.8 AMPS, ELKAY #ESRWC-13.
TD-1	TRENCH DRAIN	-	-	3"	2"	3"	TRENCH DRAIN J.R. SMITH #9931, COMPLETE WITH HEAVY DUTY FRAME, LOAD CLASS C STAINLESS STEEL SLOTTED GRATE, FULLY SLOPED CHANNELS.
TMV-1	TEMPERATURE MIXING VALVE	1/2"	1/2"	-	-	-	EMERGENCY FIXTURE THERMOSTATIC MIXING VALVE. BRADLEY #S19-2100 COMPLETE WITH CHROME PLATED FINISH, STAINLESS STEEL SURFACE MOUNTED BOX, INTEGRAL STRAINER CHECK STOPS ON INLET BUILT IN COLD WATER BYPASS, HOT WATER SHUT OFF WHEN COLD SUPPLY IS LOST, OUTLET TEMPERATURE GAUGE. 25 GPM @ 15 PSI PRESSURE DROP. SET TEMPERATURE TO 85°.

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SHEET TITLE  
**PLUMBING  
SCHEDULE SHEET**  
  
**P001**

By: mjefrags Dec 07, 2006 - 4:42pm, X:\Projects\2006\06140.00.01\Mech\DWG\P001.dwg



**CLEARFIELD  
MAINTENANCE  
FACILITY**  
STATION #1424  
2001 EAST 700 SOUTH  
CLEARFIELD, UTAH 84015

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PROFESSIONAL SEAL



ISSUE

MARK	DATE	DESCRIPTION
1	1/15/07	DFCM REVIEW COMMENTS
2	12/08/06	CONSTRUCTION DOCUMENTS
3	08/28/06	95% DESIGN SUBMITTAL
4	07/17/06	60% DESIGN SUBMITTAL

DFCM CONTRACT NO:	067477
DFCM PROJECT NO:	06034900
ARCHIPLEX PROJECT NO:	0609.01
DRAWN BY:	B.W.
CHECKED BY:	A.D.S.
SCALE:	
DATE:	DECEMBER 8, 2006

KEY PLAN

SHEET TITLE

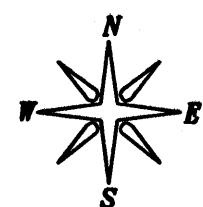
**PLUMBING  
FLOOR PLAN**

P201

## KEYED NOTES:

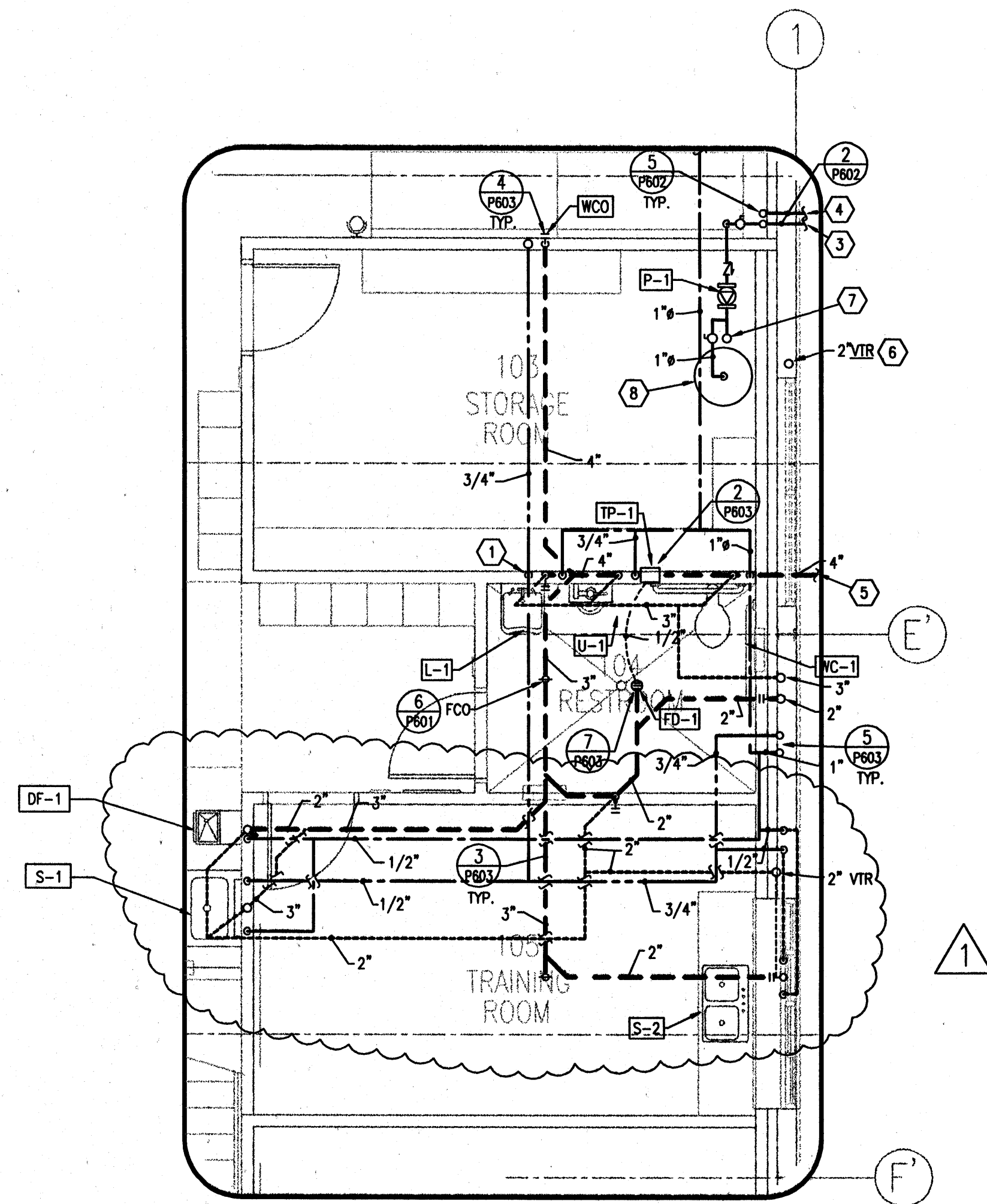
- 1 SEE SITE DRAWINGS FOR CONTINUATION.
- 2 SEE CIVIL DRAWINGS FOR INVERT ELEVATION. GENERAL CONTRACTOR IS TO COORDINATE WITH HIS SUBS TO VERIFY SITE SANITARY SEWER AND BUILDING SANITARY PIPE WILL PROPERLY CONNECT PRIOR TO INSTALLING ANY SANITARY PIPE IN THE SITE OR BUILDING. IF A PROBLEM EXISTS, THE CONTRACTOR IS TO INFORM THE ARCHITECT OF THE PROBLEM PRIOR TO INSTALLING ANY PIPE. IF PIPE IS INSTALLED AND A PROBLEM ARISES, THE CONTRACTOR, AT HIS EXPENSE, SHALL PERFORM ANY WORK REQUIRED SUCH THAT THE SANITARY PIPE CAN BE INSTALLED CORRECTLY TO CODE STANDARDS.
- 3 VENTS FROM SAND/OIL SEPARATOR MAY BE COMBINED AFTER THEY ARE 10' ABOVE FLOOD RM OF SEPARATOR AND THEN CONNECTED TO VEHICLE STORAGE BAY WASTE SYSTEM VENT PIPE.
- 4 PROVIDE PVC COVER OVER INSULATION TO 8'-0" AFF. MOUNT HB-1 3'-0" AFF.
- 5 ROUTE PIPING ABOVE STRUCTURE.
- 6 ALL WASTE PIPING 3" AND GREATER TO SLOPE 1/8" PER FOOT.
- 7 PIPE SLEEVES REQUIRED ON THIS PROJECT. IF CONTRACTOR FAILS TO INSTALL PIPE SLEEVES, THE CONTRACTOR SHALL REMOVE PIPE, INSTALL SLEEVE AND REINSTALL PIPE AT NO ADDITIONAL EXPENSE TO THE OWNER.
- 8 CAP LINE FOR FUTURE EXPANSION.
- 9 1140 CF/HR OF 2 PSI NATURAL GAS WITH A SG. 0.60 AND A HEAT CONTENT OF 880 BTU/CF. PROVIDE APPLIANCE REGULATOR AT EACH APPLIANCE TO REDUCE GAS PRESSURE FROM 2 PSI TO 4 OZ.
- 10 CONNECT OIL DRAIN LINE TO DRAIN PUMP. RUN DRAIN LINE OUT TO CATCH TANK. PROVIDE SHUT-OFF VALVE AND UNION. CATCH TANK FURNISHED BY OWNER, INSTALLED BY CONTRACTOR. DRAIN PUMP BY CONTRACTOR. VERIFY LOCATION.
- 11 CONNECT 1" COMPRESSED AIR LINE AND 3/4" CW LINE TO OVERHEAD HOSE REEL. PROVIDE SHUT-OFF AND UNION. HOSE REEL BY CONTRACTOR.
- 12 3/4" COMPRESSED AIR DROP DOWN TO QUICK DISCONNECT. PROVIDE SHUT-OFF VALVE. VERIFY MOUNTING HEIGHT WITH OWNER. REFER TO DETAIL 5/P601.
- 13 DROP 3/4" COMPRESSED AIR DOWN TO OIL DRAIN PUMP. PROVIDE SHUT-OFF VALVE.
- 14 DROP 1" COMPRESSED AIR LINE TO LUBE BARRELS. PROVIDE SHUT-OFF VALVE. LUBE BARRELS BY OWNER, INSTALLED BY CONTRACTOR.
- 15 AIR COMPRESSOR BY CONTRACTOR. CONNECT 1-1/2" COMPRESSED AIR LINE TO COMPRESSOR. PROVIDE SHUT-OFF VALVE AND UNION.
- 16 GAS LINE DOWN TO BURNER. PROVIDE SHUT-OFF VALVE, UNION AND APPLIANCE REGULATOR REFERENCE DETAIL 2/M603.
- 17 DROP AIR LINE DOWN COLUMN FACE AND TERMINATE WITH QUICK COUPLER 3'-0" A.F.F.
- 18 NOT USED.
- 19 7 EACH TOTAL HOSE REELS FOR OIL, GREASE AND LUBRICATION.

**1 PLUMBING FLOOR PLAN**  
P201 SCALE: 1/8" = 1' - 0" 6' 0' 4' 8' 12' 16'



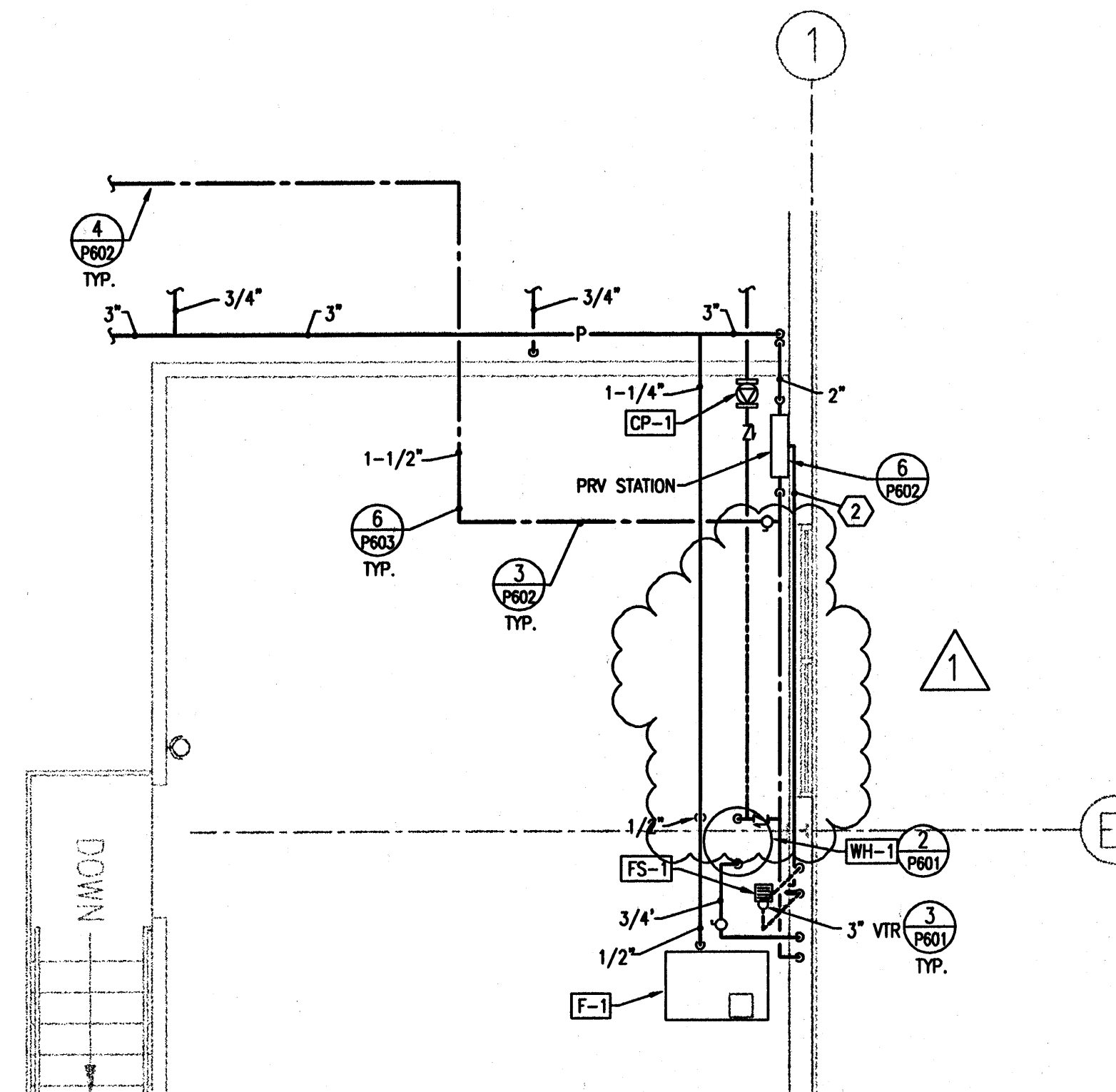
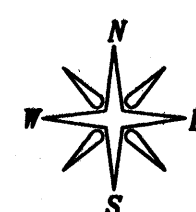
REVISED FLOOR PLAN

1

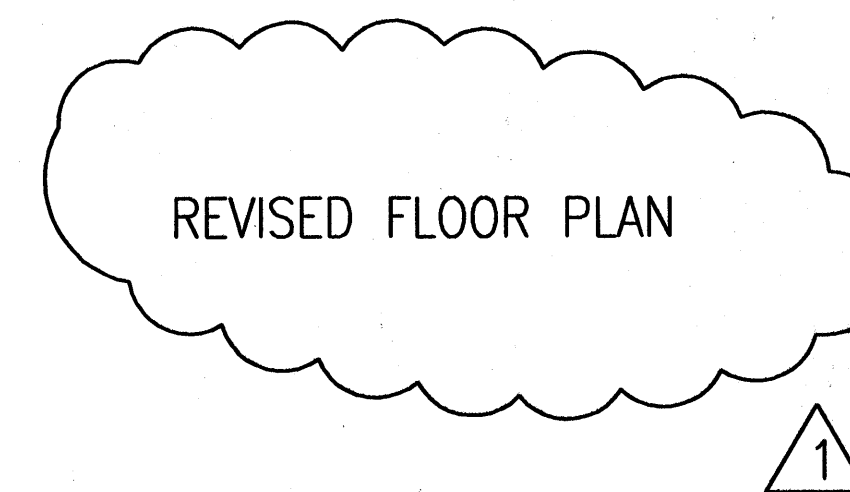


- KEYED NOTES:**
- ① 1/2" HOT WATER DOWN TO L-1
  - ② 3/4" DRAIN LINE. AIR GAP TO FS-1
  - ③ 2" WATER LINE.
  - ④ 3" NATURAL GAS.
  - ⑤ SEE SITE PLAN FOR CONTINUATION.
  - ⑥ SEE DRAWING P201 FOR CONTINUATION.
  - ⑦ 2" WATER PIPE UP TO FLOOR ABOVE.
  - ⑧ AIRTRIL BLADDER TANK #WY-252. PRE CHARGE TO 40 PSI. MAXIMUM WORKING PRESSURE 100 PSI.

**1 PLUMBING ENLARGEMENT**  
P301 SCALE: 1/4" = 1' - 0" 6' 0 4' 8' 12' 16'



**2 MEZZANINE PLUMBING PLAN**  
P301 SCALE: 1/4" = 1' - 0" 6' 0 4' 8' 12' 16'



CLIENT

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CHECKED BY: A.D.S.  
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KEY PLAN

SHEET TITLE

**PLUMBING  
ENLARGEMENTS**

**P301**









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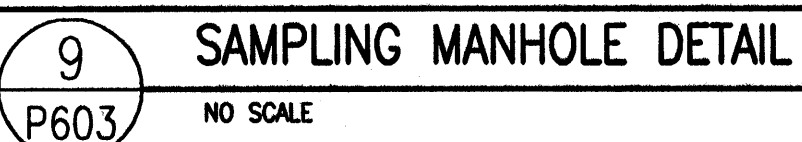
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# PLUMBING DETAIL SHEET

**P603**

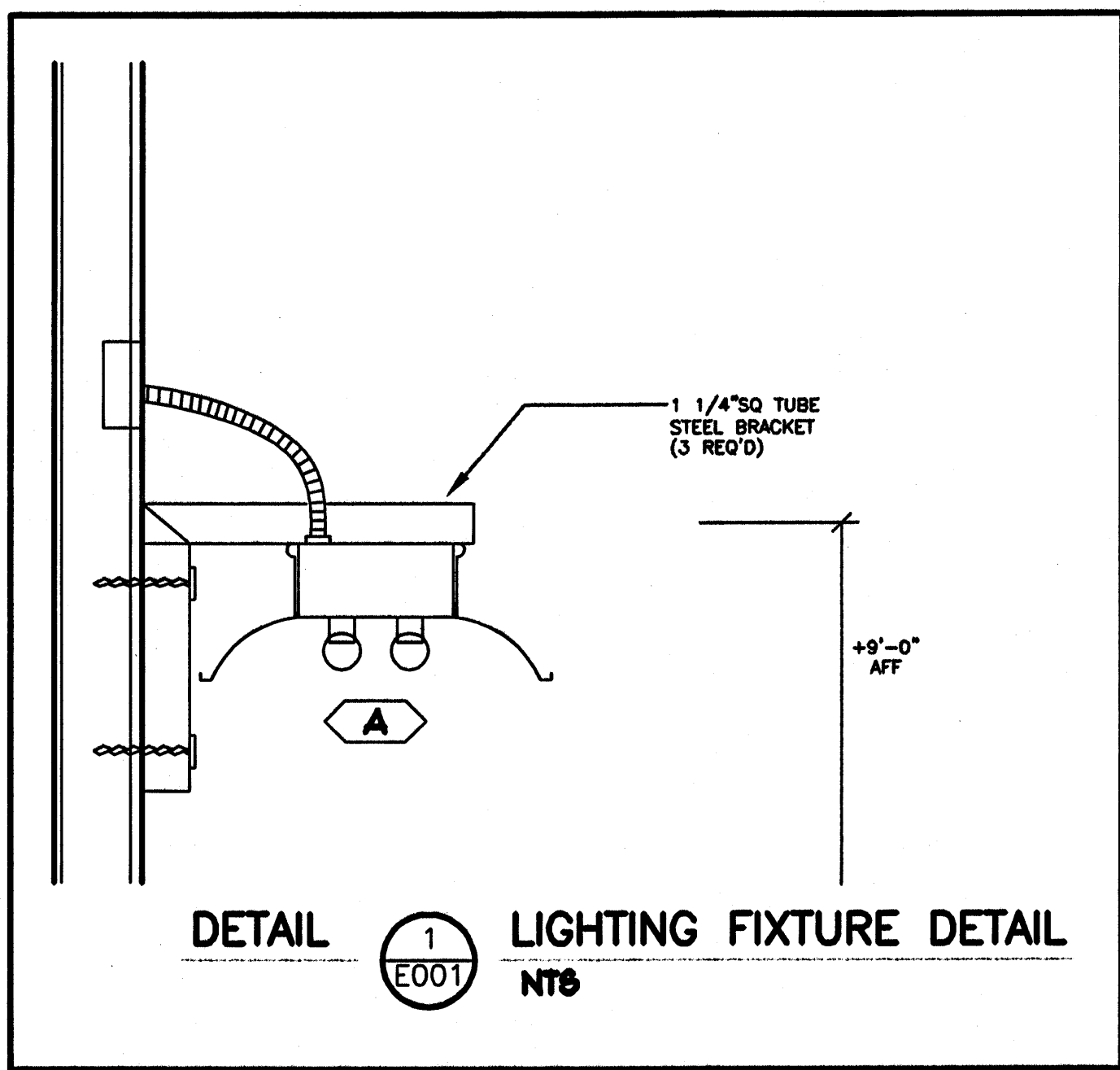


### GENERAL NOTES

- DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO MAKING ANY ROUGH-INS.
- FINAL CONNECTIONS TO EQUIPMENT SHALL BE MADE AS PER MANUFACTURERS WRITTEN INSTRUCTIONS AND APPROVED WIRING DIAGRAMS AND DETAILS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE ALL MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
- CONSULT ARCHITECTS REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF LIGHTING FIXTURES, SPEAKERS, SMOKE DETECTORS ETC.
- ELECTRICAL CONTRACTOR SHALL MEET WITH THE CEILING AND MECHANICAL CONTRACTORS TO COORDINATE LOCATIONS, CLEARANCES, CEILING TYPES AND ROUGH-IN REQUIREMENTS OF ALL LIGHTING FIXTURES PRIOR TO DUCT, PIPING AND CEILING INSTALLATIONS.
- ALL SAFETY RACETRACK SYSTEMS SHALL HAVE A 300VLS RATED FULL CORD INSTALLED AND SHALL BE IDENTIFIED AT EACH ANCHOR, HELL AND TERMINATION POINT USING PERMANENT MARKER IN THE BOX. IT SHALL INDICATE INTENDED USE OF CONDUIT, ORIGIN AND TERMINATION POINTS OF EACH INDIVIDUAL CONDUIT.
- ALL PENETRATIONS OF FIRE RATED FLOORS, CEILING AND WALLS SHALL BE SEALED WITH APPROVED AND RATED FIRE STOP MATERIAL TO MAINTAIN FIRE RATINGS OF ASSES-BLT.
- ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY OR CONCRETE COLUMNS, BOND BEAMS OR CIRCUIT CELLS OF MASONRY WALLS ADJACENT TO OPENINGS WITHOUT COORDINATION WITH THE MASONRY CONTRACTOR.
- IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY. THE ENGINEER RESERVES THE RIGHT TO VERBALLY APPROVE METHODS AND MATERIALS NOT REFLECTED HEREIN.
- CONTRACTOR SHALL REVIEW ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND OTHER DRAWINGS PRIOR TO BID.
- WORK SHALL BE PERFORMED IN A PROFESSIONAL WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT AND ENGINEER.
- WORK, MATERIALS AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE AND NATIONAL CODES, STANDARDS AND ORDINANCES.
- CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY BUILDING PERMITS AND INSPECTION FEES.
- THE CONTRACTOR SHALL GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION. DEFECTS SHALL BE PROMPTLY CORRECTED.
- PROVIDE RECORD DRAWINGS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- VERIFY EXACT LOCATION OF EQUIPMENT TO BE FURNISHED BY OTHERS PRIOR TO ROUGH-IN.
- ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH-INS. CONSULT CONTRACT DOCUMENT DRAWINGS AND SHOP DRAWINGS TO VERIFY ALL CODE AND MAINTENANCE REQUIRED CLEARANCES ARE MAINTAINED.
- CONTRACTOR SHALL VERIFY ACTUAL ELECTRICAL LOADS OF EACH PIECE OF EQUIPMENT REQUIRING POWER. BRING ANY DISCREPANCIES TO THE ATTENTION OF THE PROJECT ENGINEER.
- SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS RESULT IN DEFECT OR IMPROPER OPERATION THE CONTRACTOR SHALL MAKE ANY CORRECTIONS NECESSARY AT NO ADDITIONAL COSTS TO THE OWNER.
- WIRE SHALL BE COPPER 75° C RATED FOR GENERAL USE. FOR HID FIXTURES AND WIRING WITHIN 5' OF FLUORESCENT BALLAST SHALL BE COPPER MINIMUM 90° C RATED. CONDUCTOR SIZES INDICATED ARE FOR INSTALLATION IN A MAXIMUM 30° C AMBIENT TEMPERATURE ENVIRONMENT. CONDUCTOR APPROPRIATE SHALL BE DERATED FOR HIGHER AMBIENT INSTALLATIONS.
- SPLICES IN EXTERIOR PULLBOXES AND HANGERS SHALL BE MADE WATERPROOF USING "BOOTS" KIT OR APPROVED EQUAL. SEAL ENDS OF CONDUITS AND DUCTS ENTERING BOXES WITH "DUCTEAL" OR EQUAL.
- IDENTIFY SHOP DRAWINGS IN ACCORDANCE WITH SPECIFICATIONS BOUND IN A THREE RING BINDER, INDEXED IN A NEAT AND CREASILY HANGER WITH TYPE AND MODEL NUMBERS INDICATED. SUBMITTALS SHALL INCLUDE BUT NOT LIMITED TO: LIGHTING FIXTURES, LAMPS, WIRING DEVICES, OCCUPANT SENSORS, CONTRACTORS, TIME CLOCKS, PHOTOCELLS, RELAYS, SWITCHBOARDS, PANELBOARDS, MOTOR CONTROL CENTERS, SAFETY SWITCHES, MOTOR STARTERS, OVERCURRENT PROTECTION DEVICES, TRANSFORMERS, CONDUITS OVER 240 VOLTS AND ALL SPECIAL SYSTEMS SUCH AS FIRE ALARM, LIGHTING CONTROLS, SECURITY SYSTEMS, SOUND SYSTEMS ETC.
- VERIFY EXACT LOCATIONS OF ALL NEW AND EXISTING UNDERGROUND SITE UTILITIES, PIPING AND RACETRACK SYSTEMS PRIOR TO TRENCHING. PROVIDE NECESSARY TRENCHING, BACKFILL, EXCAVATION SUPPORTS, SERVICE RECORDS, (CONDUIT AND/OR WIRE) FULL BOXES, TRANSFORMER PADS, SAW CUTTING AND PATCHING, CONCRETE PAVING ETC. REQUIRED. BACKFILL, REPAIRS TO 50% COMPACTION AND PATCHING TO MATCH EXISTING. CONTRACTOR SHALL OBTAIN AND VERIFY EXACT UTILITY COMPANY DRAWINGS AND REQUIREMENTS FOR ALL SITE UTILITIES. ELECTRICAL CONTRACTOR SHALL ALSO COORDINATE ELECTRICAL RELATED UTILITIES WITH THE CIVIL AND MECHANICAL ENGINEERS AND CONTRACTORS.
- FULL BOXES, CABINETS, ETC. MOUNTED ON THE EXTERIOR OF THE BUILDING AT GRADE LEVEL, SHALL BE WEATHERPROOF TYPE WITH HANDED GASKETED LOCKABLE COVERS SECURED WITH TAPPERS-PROOF SCREWS.

### LIGHTING FIXTURE SCHEDULE

FIXTURE TYPE	MANUFACTURE	CATALOG NUMBER	DESCRIPTION	LAMP	QTY	FX	MTG	VOLTS
A	METALUX	STD9230-120V	8' 4-LAMP INDUSTRIAL FLUORESCENT FIXTURE	P3278 0P35	4	110	PEND.	120
B	METALUX	2PCB-333A-120V E801	RECESSED PLANGED 2'X4' 3-LAMP FLUORESCENT FIXTURE	P3278 0P35	3	60	REC.	120
C	METALUX	BR333A-120V E801	SURFACE MOUNTED FLUORESCENT WRAP AROUND FIXTURE	P3278 0P35	2	60	SURF.	120
EL	SURELITE	COTNORD-SH	EMERGENCY BATTERY PACK	CBU UNIT	2	32	SURF.	120
XI	SURELITE	LPO76DS-SH	LED EXIT SIGN	LED	-	32	UNIV.	120
OA	LUPARK	PM1250-120V	OUTDOOR 350W METAL HALIDE WALLPACK	250W FM	1	275	SURF.	120
OB	MOOREAN EDCON	APF-Y-400PSL-NT-75-BK	OUTDOOR 400W METAL HALIDE FLOOD LIGHT	400W FM	1	400	WALL	120
OC	LUPARK	PM1100-120V	100W METAL HALIDE FIXTURE	100W FM	1	110	WALL	120
OD	LUPARK	PM1250-120V	250W METAL HALIDE FIXTURE	250W FM	1	275	SURF.	120



### ELECTRICAL SYMBOL SCHEDULE

STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS			
SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES
—	ONE CIRCUIT, TWO WIRE HOPE RUN TO PANEL		
—	2 CIRCUIT, 3 WIRE, COMMON NEUTRAL HOPE RUN		
—	3 CIRCUIT, 4 WIRE, COMMON NEUTRAL HOPE RUN		
—	CONDUIT RUN CONCEALED IN WALL OR CEILING		
—	CONDUIT RUN CONCEALED IN FLOOR OR GROUND		
—	CONDUIT UP		
—	CONDUIT DOWN		
—	CONDUIT STUB LOCATION	CAP CONDUIT	
○	CEILING LIGHT FIXTURE	CEILING	
○	WALL LIGHT FIXTURE	AS NOTED	
○	RECESSED DOWNLIGHT FIXTURE	CEILING	
○	FLUORESCENT LIGHT FIXTURE	AS NOTED	
○	FLUORESCENT SIGN/EXIT LIGHT FIXTURE	AS NOTED	UNSWITCHED
○	CEILING MOUNTED EXIT LIGHT	CEILING	
○	WALL MOUNTED EXIT LIGHT	AS NOTED	
⚡	SINGLE POLE SWITCH	4'-0"	
⚡	SINGLE POLE SWITCH	4'-0"	
⚡	THREE-WAY SWITCH	4'-0"	
⚡	FOUR-WAY SWITCH	4'-0"	
⚡	KEY OPERATED SWITCH	4'-0"	
⚡	SWITCH WITH PILOT LIGHT	4'-0"	
⚡	VARIABLE INTENSITY SWITCH	4'-0"	
⚡	TRIP SWITCH	4'-0"	
⚡	DUPLEX RECEPTACLE	4'-0"	
⚡	DUPLEX RECEPTACLE		
⚡	ELECTRIC WATER COOLER RECEPTACLE		
⚡	WEATHERPROOF RECEPTACLE	2'-4"	
⚡	ISOLATED GROUND RECEPTACLE	4'-0"	
⚡	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE	4'-0"	
⚡	DUPLEX RECEPTACLE (EMERGENCY POWER (RED))	4'-0"	
⚡	FOURPLEX RECEPTACLE	4'-0"	
⚡	FOURPLEX RECEPTACLE (EMERGENCY POWER (RED))	4'-0"	
⚡	FLOOR OUTLET WITH 30A DEVICE	FLOOR	
⚡	SPECIAL PURPOSE OUTLET	7'-0" OR AS NOTED	
⚡	DATA OUTLET	4'-0"	
⚡	TELEPHONE OUTLET	4'-0"	
⚡	TELEPHONE/DATA OUTLET	4'-0"	
⚡	TELEPHONE OUTLET	FLOOR	
⚡	JUNCTION BOX (1" IN FLOOR)	AS NOTED	
⚡	MOTOR OUTLET	TO SUIT EQUIP.	
⚡	NON-FUSED DISCONNECT SWITCH	4'-0"	
⚡	FUSED DISCONNECT SWITCH	4'-0"	
⚡	HANDL STARTER THERMAL OVERLOAD SWITCH WITH PILOT L	2'-0" OR 4'-0"	
⚡	PANEL BOARD	TOP AT 4'-0"	
⚡	MAIN DISTRIBUTION PANEL		
⚡	TELEPHONE TERMINAL BOARD		
⚡	ARCHITECTURAL ROOM NUMBER		
⚡	LIGHT FIXTURE (LETTER DESIGNATES TYPE)		
⚡	EQUIPMENT NUMBER		

### INDEX OF ELECTRICAL DRAWINGS

E001	ELECTRICAL SCHEDULES, NOTES
E002	PANEL SCHEDULES & ONE LINE DIAGRAM
E100	ELECTRICAL SITE PLAN
E201	LIGHTING PLAN
E202	SALT STORAGE BUILDING ELECTRICAL PLAN
E201	POWER FLOOR PLAN

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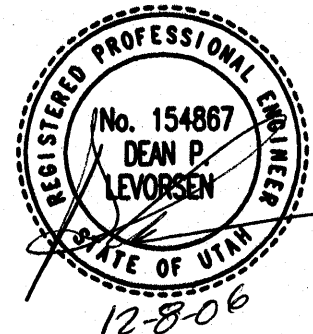
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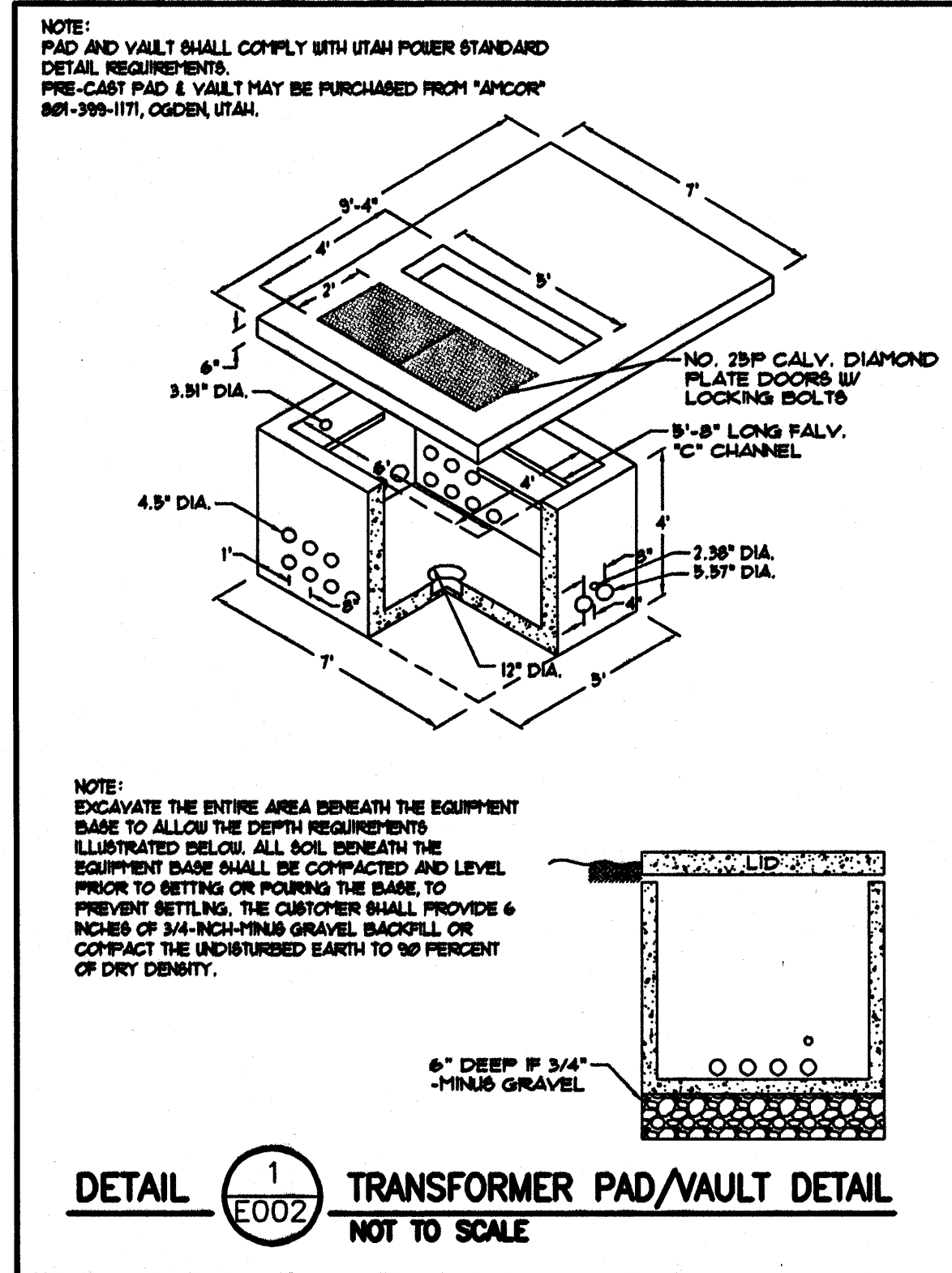
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ELECTRICAL  
SCHEDULES,  
NOTES

E001



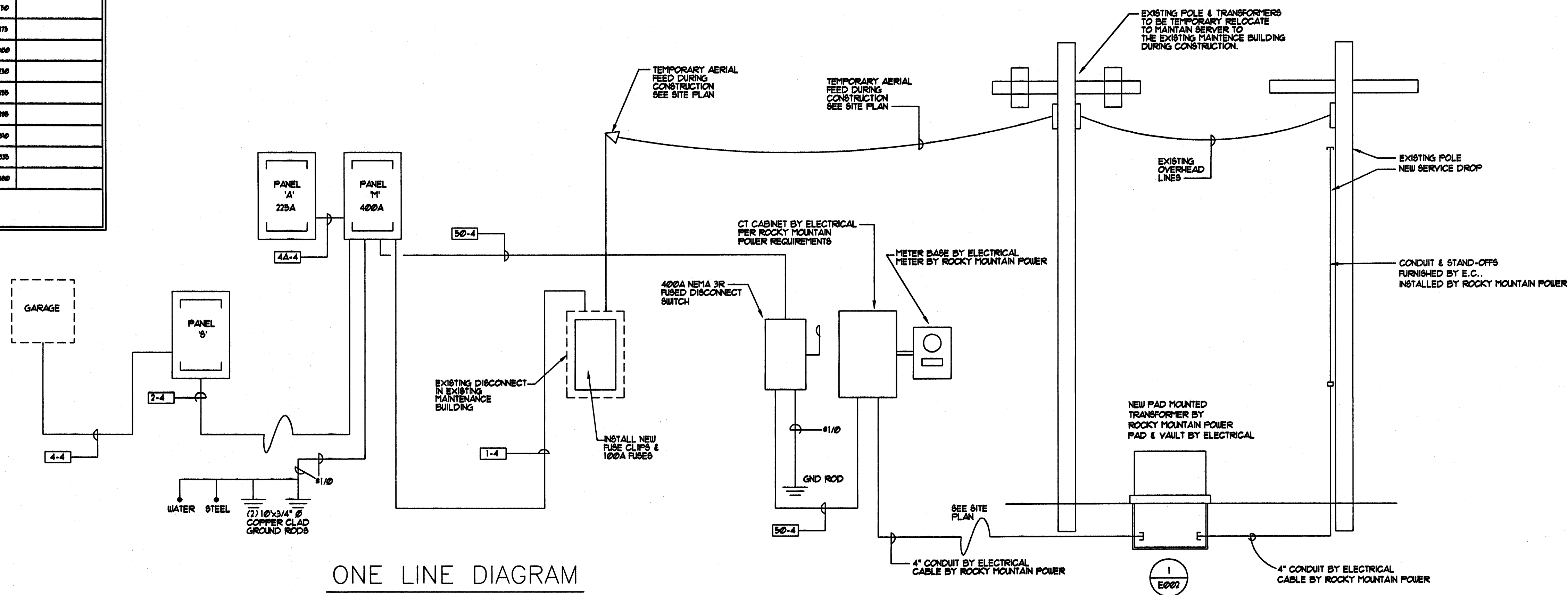
WIRE & CONDUIT SCHEDULE									
SYMBOL	SIZE	QTY	COND.	CONDUIT	WIRE SIZE & TYPE	AMPS	NOTES		
10-	3	2	10	3/4"	#10 THRU/THIN	30			
6-	3	2	10	3/4"	#6 THRU/THIN	40			
6-	3	2	10	3/4"	#6 THRU/THIN	50			
4-	3	2	8	3/4"	#4 THRU/THIN	70			
3-	3	2	8	1-1/4"	#3 THRU/THIN	90			
2-	3	2	6	1-1/4"	#2 THRU/THIN	105			
1-	3	2	6	1-1/2"	#1 THRU/THIN	110			
1A-	3	2	6	1-1/2"	#1A THRU/THIN	150			
2A-	3	2	6	1-1/2"	#2A THRU/THIN	175			
3A-	3	2	6	2"	#3A THRU/THIN	200			
4A-	3	2	4	2"	#4A THRU/THIN	230			
20-	3	2	4	2-1/2"	#20 THRU/THIN	280			
30-	3	2	3	3"	#30 THRU/THIN	280			
30-	3	2	3	3"	#30 THRU/THIN	310			
40-	3	2	3	3"	#40 THRU/THIN	330			
50-	3	2	3	4"	#50 THRU/THIN	380			
EXAMPLE: [3A-4] - 4 #3A THRU/THIN 2" CONDUIT @ 6' GND.									



PANELBOARD SCHEDULE														
PANEL     'S'			120/208   VOLTS					3   PH			4			
MOUNTING			FLUSH SURFACE			LOCATION:    SALT STORAGE					PROJECT:    CLEARFIELD MAINT.			
RATING:    10,000			AMP    100A   -   MB											
BRANCH BREAKERS														
ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD	RIGHT PHASE LOAD	LOAD	CIR. NO.	AMPS	POLE	WIRE SIZE	ITEM	AMPS	POLE
LIGHTING	20	1	12	1	1400		500	2	20	1	12	RECEPTACLES	2	20
LIGHTING	20	1	12	3	1400		500	4	20	1	12	RECEPTACLES	4	20
LIGHTING	20	1	12	5		900		6	20	1	12	WASH RACK	6	20
FUEL PUMP	20	2	12	7	500		1000	8	60	3	4	GARAGE	8	60
SPARE	20	1	11	11		500		1000	12	20	1	SPARE	12	20
				13					14	20	1			
				15					16	20	1			
				17					18	20	1			
				19					20	20	1			
				21					22	20	1			
				23					24	20	1			
				25					26	20	1			
				27					28	20	1			
				29					30	20	1			
				31					32	20	1			
				33					34	20	1			
				35					36	20	1			
				37					38	20	1			
				39					40	20	1			
				41					42	20	1			
TOTAL					1800	1800	900	1500	1500	1500	LOAD TOTAL       9,200			
					3400	3400	2400				FLA                28			

PANELBOARD SCHEDULE															
PANEL 'A'			120/208 VOLTS			3 PH			4 W						
MOUNTING			FLUSH X SURFACE			LOCATION: MEZZ. 201			PROJECT: CLEARFIELD MAINT.						
RATING: 10,000			AMP 225 - MLO												
BRANCH BREAKERS															
ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD	RIGHT PHASE LOAD	PHASE LOAD	CIR. NO.	AMPS	POLE	WIRE SIZE	ITEM	AMPS	POLE	
LIGHTING	20	1	12	1	1100		1000	2	20	1	12	RECEPTACLES	2	20	
				3		1000		4							
				5			1300	6							
				7	1500		600	8							
OUTDOOR LIGHTING				9		1100		10							
OUTDOOR LIGHTING				11		1100		12							
SPARE				13			1000	14							
DOORS				15		1000		16							
				17				18							
				19	1000		400	20							
				21		1000		22							
				23			1000	24	25	1	10	BURNERS	24	25	
				25	1000		1500	26	25	1	10	VACUUM PUMP	26	25	
				27		1000		28	20	1	12	VACUUM PUMP	28	20	
				29			1000	30	20	1	12	RECEPTACLE	30	20	
				31	1000		600	32							
				33		1000		34							
FLOOD LIGHTS				35			1000	36							
FLOOD LIGHTS				37	1400		600	38							
FLOOD LIGHTS				39		1400		40							
SPARE				41				500	42						
TOTAL					7000	8900	8400	5700	4100	5500	LOAD TOTAL 38,200				
					12700	11600	11700					FLA 101			

PANELBOARD SCHEDULE																	
PANEL 'M'			120/208 VOLTS					3 PH			4						
MOUNTING			FLUSH SURFACE					LOCATION: MEZZ. 201			PROJECT: CLEARFIELD MAINT						
RATING: 22,000 SERVICE RATED			AMP 400 - MLO														
BRANCH BREAKERS																	
ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD	A	B	C	RIGHT PHASE LOAD	A	B	C	CIR. NO.	AMPS	POLE	WIRE SIZE	ITEM
COMPRESSOR	50	3	6	1	2900				12700				2	125	3	1/0	PANEL 'A'
7-1/2 HP-VERTIFY				3		2900			11800				4	—	—	—	—
				5				2900		11700	6	—	—	—	—	—	—
SPARE	20	1	12	7					2400		8	40	2	8	—	—	COND. UNIT
SPARE	20	1	12	9					2400		10	20	1	12	—	—	FURNACE
SPARE	20	1	12	11					900		12	20	1	12	—	—	EXCH. FAN
SPARE	20	1	12	13					900		14	20	3	3	—	—	FF-2 ZHP
SPECIAL OUTLET	60	2	6	15		3500				900		16	—	—	—	—	—
				17				3500				900	18	—	—	—	—
SPECIAL OUTLET	60	2	6	19	3500				2900		20	50	3	6	—	—	MOBILE LIFT
				21		3500			2900		22	—	—	—	—	—	—
PUMP	20	3	12	23				900		2900		24	20	1	12	—	—
1 1/2HP				25	900				2900		26	80	3	6	—	—	HOIST
				27				900		2900		28	—	—	—	—	7-1/2HP
SPARE	20	1	12	29						2900	30	20	1	12	—	—	—
				31					5000		32	100	3	—	—	—	EXISTING PANEL
				33					5000		34	—	—	—	—	—	—
				35						5000	36	—	—	—	—	—	—
				37					3400		38	80	3	3	—	—	PANEL 'S'
				39					3400		40	—	—	—	—	—	—
				41						2400	42	—	—	—	—	—	—
TOTAL					7300	10800	7300		33100	29100	26800						
					40400	39900	37100								LOAD TOTAL 114400		
															FLA 320		



ONE LINE DIAGRAM

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CLEARFIELD  
MAINTENANCE  
FACILITY  
STATION #1424  
2001 EAST 700 SOUTH  
CLEARFIELD, UTAH 84015

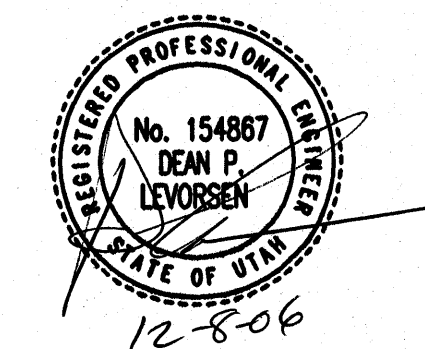
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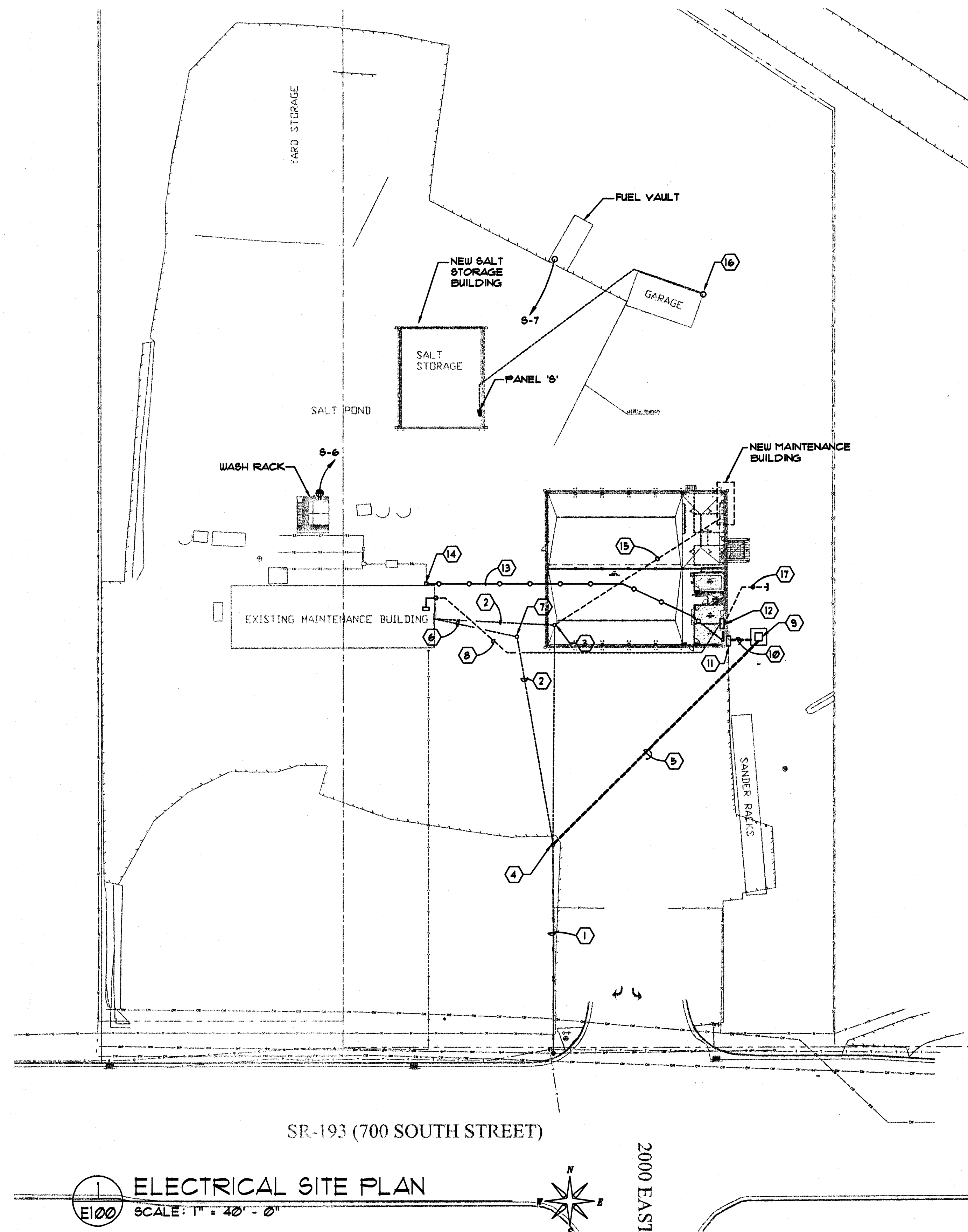
MARK	DATE	DESCRIPTION
	12/08/06	CONSTRUCTION DOCUMENTS
	08/28/06	95% DESIGN SUBMITTAL
	07/17/06	60% DESIGN SUBMITTAL

DFCM CONTRACT NO:	067477
DFCM PROJECT NO:	06034900
ARCHIPLEX PROJECT NO:	0609.01
DRAWN BY:	R.S.C.
CHECKED BY:	R.K.R.
SCALE:	
DATE:	DECEMBER 8, 2006
KEY PLAN	

SHEET TITLE

D  
C  
B  
A

By: scrowford Dec 08, 2006 - 11:24am, X:\Projects\2006\06140.00.01\Elec\E100.dwg



#### KEYED NOTES:

- 1 EXISTING OVERHEAD PRIMARY LINES TO BE CHANGED TO 3Ø FEED BY ROCKY MOUNTAIN POWER.
- 2 EXISTING OVERHEAD PRIMARY LINES TO BE TEMPORARILY RELOCATED AND LATER REMOVED BY ROCKY MOUNTAIN POWER.
- 3 EXISTING POWER POLE TO BE REMOVED BY ROCKY MOUNTAIN POWER. TEMPORARILY LOCATED TO THE WEST. SEE KEYED NOTE 7.
- 4 EXISTING POWER POLE TO REMAIN AND HAVE NEW 3Ø DOWN LEAD BY ROCKY MOUNTAIN POWER. SEE ONE LINE DIAGRAM SHEET E001.
- 5 NEW UNDERGROUND PRIMARY FEED TO PAD MOUNTED TRANSFORMER. SEE ONE LINE DIAGRAM SHEET E001.
- 6 RELOCATED TEMPORARY POWER FEED BY ROCKY MOUNTAIN POWER.
- 7 TEMPORARY POWER POLE BY ROCKY MOUNTAIN POWER. TEMPORARY FEED TO EXISTING BUILDING.
- 8 NEW FEED TO EXISTING BUILDING. SEE ONE LINE DIAGRAM SHEET E001.
- 9 NEW PAD MOUNTED TRANSFORMER. SEE ONE LINE DIAGRAM SHEET E001.
- 10 SECONDARY FEEDERS.
- 11 CT CABINET AND METER.
- 12 DISTRIBUTION PANEL 1" ON MEZZANINE LEVEL.
- 13 NEW U.G. 2" TELEPHONE SERVICE TO NEW BUILDING. SEE SHEET E301.
- 14 EXISTING TELEPHONE PEDESTAL.
- 15 EXISTING OVERHEAD SECONDARY POWER LINE TO BE REMOVED BY E.C.
- 16 DISCONNECT EXISTING GARAGE POWER SERVICE & RE-FEED FROM PANEL 'S'. SEE ONE LINE DIAGRAM.
- 17 1" C.O. FROM PANEL M STUBBED OUT OF BUILDING FOR FUTURE.

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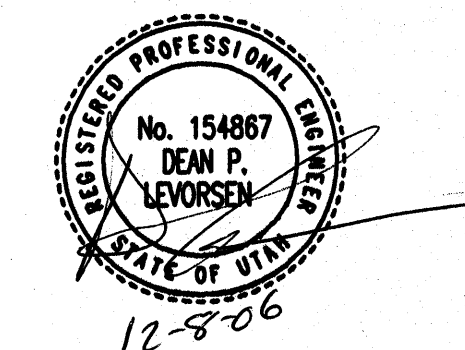
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ARCHIPEX PROJECT NO:	0609.01
DRAWN BY:	R.S.C
CHECKED BY:	R.K.R
SCALE:	
DATE:	DECEMBER 8, 2006

KEY PLAN

SHEET TITLE

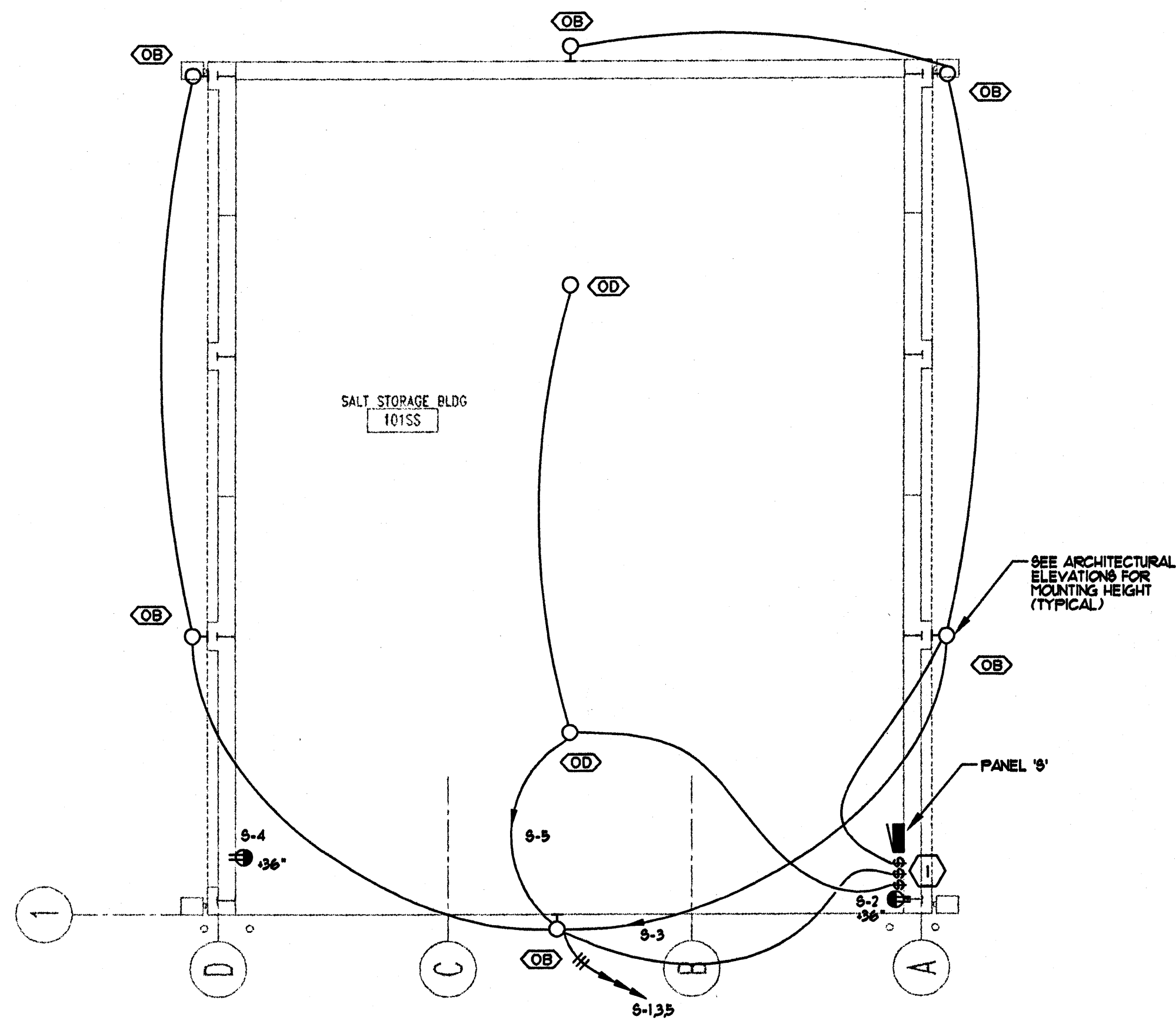
**ELECTRICAL  
SITE PLAN**

**E100**





KEYED NOTES:  
① PROVIDE WEATHERPROOF SWITCHES.



3 SALT STORAGE BLDG. ELECTRICAL  
E202 SCALE: 1/8" = 1' - 0" 6' 0' 4' 8' 12' 16'

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FACILITY  
STATION #1424  
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CLEARFIELD, UTAH 84015

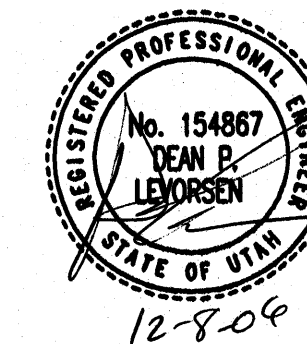
DESIGNER

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	12/08/06	CONSTRUCTION DOCUMENTS
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	07/17/06	60% DESIGN SUBMITTAL

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DFCM PROJECT NO:	06034900
ARCHIPEX PROJECT NO:	0609.01
DRAWN BY:	R.S.C
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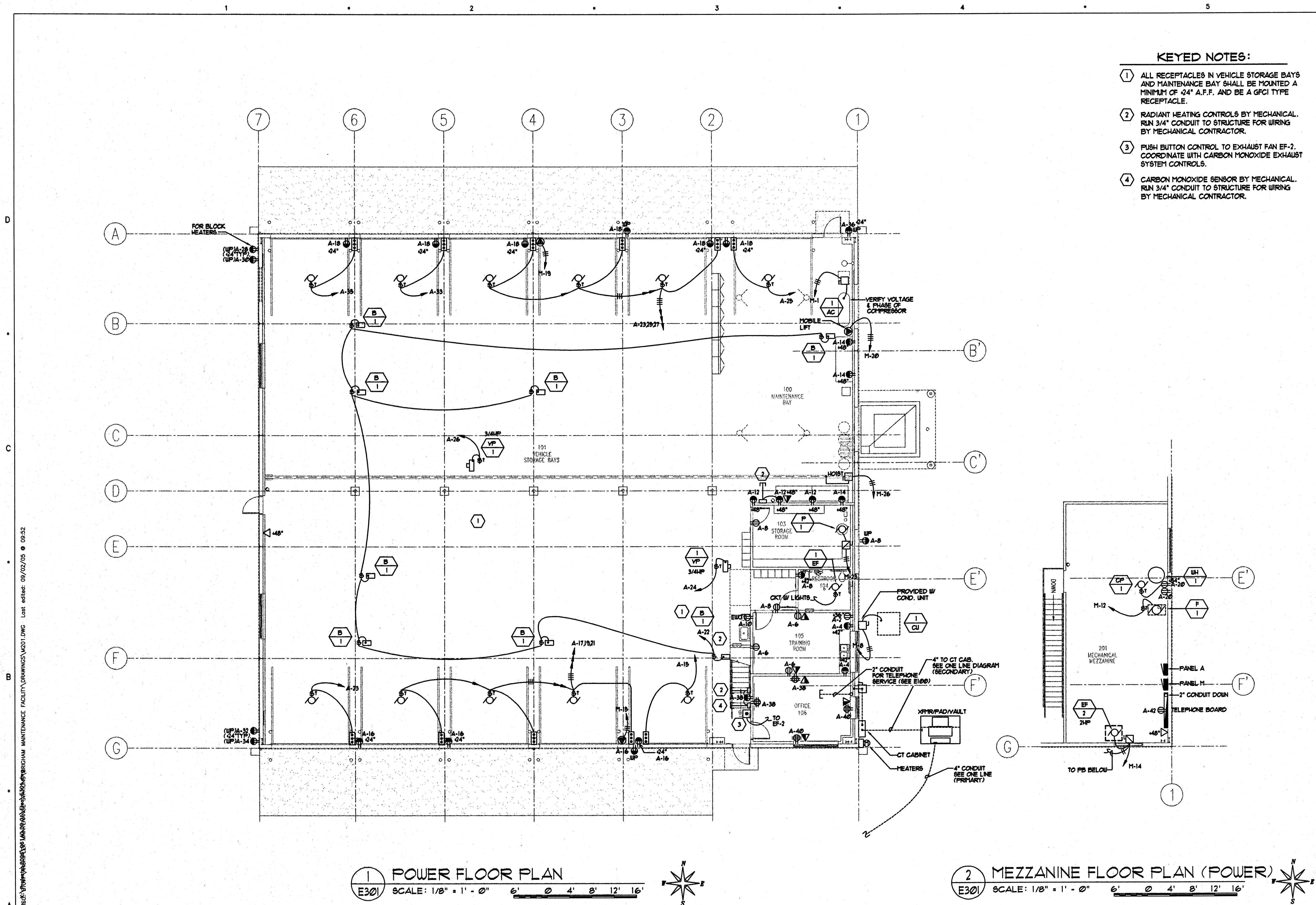
KEY PLAN

SHEET TITLE

SALT STORAGE BLDG  
ELECTRICAL PLAN

E202





- KEYED NOTES:**
- ALL RECEPTACLES IN VEHICLE STORAGE BAYS AND MAINTENANCE BAY SHALL BE MOUNTED A MINIMUM OF 24" A.F.F. AND BE A GFCI TYPE RECEPTACLE.
  - RADIANT HEATING CONTROLS BY MECHANICAL. RUN 3/4" CONDUIT TO STRUCTURE FOR WIRING BY MECHANICAL CONTRACTOR.
  - PUSH BUTTON CONTROL TO EXHAUST FAN EF-2. COORDINATE WITH CARBON MONOXIDE EXHAUST SYSTEM CONTROLS.
  - CARBON MONOXIDE SENSOR BY MECHANICAL. RUN 3/4" CONDUIT TO STRUCTURE FOR WIRING BY MECHANICAL CONTRACTOR.

CLIENT

**CLEARFIELD MAINTENANCE FACILITY**  
STATION #1424  
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**DEAN P. LEVORSEN**  
No. 154867  
STATE OF UTAH  
12207

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MARK	DATE	DESCRIPTION
1/15/07	DFCM REVIEW COMMENTS	
12/08/06	CONSTRUCTION DOCUMENTS	
08/28/06	95% DESIGN SUBMITTAL	
07/17/06	60% DESIGN SUBMITTAL	

DFCM CONTRACT NO: 067477  
DFCM PROJECT NO: 06034900  
ARCHIPLEX PROJECT NO: 0609.01  
DRAWN BY: R.S.C.  
CHECKED BY: R.K.R.  
SCALE: 1/8" = 1' - 0"  
DATE: DECEMBER 8, 2006  
KEY PLAN

SHEET TITLE

**POWER FLOOR PLAN**

**E301**